



OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY  
UNDERGROUND STORAGE TANK PROGRAM

30-DAY NOTICE OF INTENT TO DECOMMISSION USTS  
OR COMPLETE A CHANGE-IN-SERVICE

1. FACILITY (Location of Tanks) (Please Print) 2. PERMITTEE (Please Print)

Name: Interstate Distributing Co.

Name: Interstate Distributing Co./Ridder Road LLC

Address: 10110 SW Ridder Rd.

Address: 4126 78th St. Ct. East

Wilsonville, OR 97070

Tacoma, WA 98442-1857

Phone:

Phone:

253-905-8439

DEQ General Permit Operating Certificate Number: 7506

Work To Be Performed By: Bergeson-Boese & Assoc., Inc. dba BB&A I  
(Permittee, Tank Owner, Property Owner or Licensed Service Provider)

License # 10974  
(Service Provider)

Phone: Mobile Phone: 503-572-0079

THIS FORM MUST BE SUBMITTED BY UST PERMITTEE 30 DAYS BEFORE START OF WORK  
YOU MUST CONTACT YOUR LOCAL DEQ REGIONAL OFFICE 3-DAYS BEFORE STARTING ANY  
DECOMMISSIONING WORK. (Phone numbers are listed on Page 2)

Will tank removal or potential cleanup affect adjacent property or Right-of-Way property? Yes ☐ No ☒

Date decommissioning is scheduled to begin: 6/3/24

TANK ID #	DEQ-UST PERMIT #	TANK SIZE IN GALLONS	PRODUCT: GASOLINE, DIESEL, USED OIL, OTHER?		CLOSURE OR CHANGE-IN- SERVICE?			TANK TO BE REPLACED?	
			PRESENT	NEW	TANK REMOVAL	CLOSURE IN PLACE ♦	CHANGE IN SERVICE ♦	YES*	NO
1	EECA	20,000	Diesel		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	EECB	20,000	Diesel		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	EECC	6,000	Gasoline		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	EECD	4,000	Motor Oil		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\* If decommissioned tank(s) are to be replaced by new underground storage tanks you must submit a General Permit Registration Form to Install and Operate USTs for the new tanks 30 days before installing them.

- ♦ Submit a soil sampling plan to the DEQ regional office and receive plan approval prior to starting work if (1) tank is to be decommissioned in-place, (2) tank contents are changed to an unregulated substance or (3) tank contains a regulated substance other than petroleum.

Permittee: Rodney Mclean

(Please Print)

Permittee: Rodney McLean  
(Signature)

Date: 2/12/2024



## OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY UNDERGROUND STORAGE TANK PROGRAM

### UNDERGROUND STORAGE TANK DECOMMISSIONING CHECKLIST AND SITE ASSESSMENT REPORT

#### A. FACILITY INFORMATION:

This report **MUST** be submitted by the underground storage tank permittee or tank owner, or the licensed DEQ Service Provider on their behalf, **within 30 days following completion of the tank decommissioning or change-in-service regardless of ongoing cleanup work.**

DEQ FACILITY NUMBER: UST ID #7506

FACILITY NAME: Interstate Distributor

FACILITY ADDRESS: 10110 SW Ridder Road, Wilsonville, OR 97070

PERMITTEE PHONE: 253-905-8439 DATE: 7/8/2024

#### B. WORK PERFORMED BY:

The checklist and site assessment report should be completed and signed by the DEQ licensed supervisor and signed by an executive officer of the DEQ licensed Service Provider on page 6. The tank owner or permittee must review and sign the report on page 6. **NOTE: AN OWNER OR PERMITTEE MAY PERFORM UST SERVICES ONLY IF THEY HAVE TAKEN AND PASSED THE APPROPRIATE UST SUPERVISOR EXAMINATION OFFERED BY A NATIONAL TESTING SERVICE (SEE OAR 340-150-0156 for requirements).**

DEQ Service Provider's License #: 10974 Construction Contractors Board License #: 76509

Name: Bergeson-Boese & Associates, Inc

Telephone: 541-484-9484

DEQ Decommissioning Supervisor's License #: 27501

Name: Matthew Luczak

Telephone: 541-484-9484

DEQ Soil Matrix Service Provider's License #: NA (If applicable)

Name: \_\_\_\_\_

Telephone: \_\_\_\_\_

DEQ Soil Matrix Supervisor's License #: NA (If applicable)

Name: \_\_\_\_\_

Telephone: \_\_\_\_\_



**C. DATES:**Decommissioning/Change-in-Service Notice - Date Submitted: 2/13/2024 (30 days before work starts).Work Start Telephone Notice - Number issued by DEQ: 03-3D-24-019 (3 working days before work starts).DEQ Person Notified: Dave PardueDate Work Started: 6/8/2024 Date Work Completed: 6/19/2024

**Note:** Provide the following information if any soil or water contamination is found during the decommissioning or change-in-service. Contamination must be reported by the UST permittee within 24 hours. The licensed service provider must report contamination within 72 hours after discovery unless previously reported.

Date Contamination Reported: 6/28/2024 By: Matthew LuczakDEQ Person Notified: Your DEQ Online**D. OTHER DEQ PERMITS MAY BE NEEDED WHERE SOIL OR WATER CLEANUP IS REQUIRED.**DEQ Water Discharge Permit #: NA Date: Water Disposed to (Location): DEQ Solid Waste Disposal Permit #:  Date: Soil Disposal or Treatment Location: Waste Management Hillsboro Landfill**E. TANK INFORMATION:**

			PRODUCT: GASOLINE, DIESEL, USED OIL, OTHER?		CLOSURE OR CHANGE-IN-SERVICE?			TANK TO BE REPLACED?	
TANK ID #	DEQ-UST PERMIT #	TANK SIZE IN GALLONS	PRESENT	NEW	TANK REMOVAL	CLOSURE IN PLACE ♦	CHANGE IN SERVICE ♦	YES	NO
1	EECA	20,000	Diesel		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	EECB	20,000	Diesel		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	EECC	6,000	Gasoline		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	EECD	4,000	Motor Oil		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**NOTE 1:** Where decommissioned tank(s) are replaced by new underground storage tanks the UST permittee must submit a *General Permit Registration Form to Install and Operate USTs* containing information on the new tanks 30 days before installing them.

**NOTE 2:** Submit a soil sampling plan to the DEQ regional office and receive plan approval prior to starting work if 1) tank is to be decommissioned in-place, 2) tank contents are changed to a non-regulated substance, 3) tank contains a regulated substance other than petroleum, or 4) tank changed to non-regulated use.

**F. DISPOSAL INFORMATION:**

TANK ID #	TANK AND PIPING DISPOSAL METHOD				DISPOSAL LOCATION OF TANK CONTENTS	
	SCRAP	LAND-FILL	OTHER	IDENTIFY LOCATION & PROPERTY OWNER	LIQUIDS	SLUDGES
1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Republic Services (landfill)	Oil Re-Refining (ORRCO)	ORRCO
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Republic Services (landfill)	ORRCO	ORRCO
3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Republic Services (landfill)	ORRCO	ORRCO
4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Republic Services (landfill)	ORRCO	ORRCO
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	110 NW Walnut, Corvallis, OR	4150 N Suttle Road	Portland, OR 97217

**NOTE 1:** The tank contents, the tank and the piping may be subject to the requirements of Hazardous Waste regulations. If you have questions, contact the DEQ regional office for your area.

**NOTE 2:** Attach copies of the disposal receipts for the tanks and piping. If the tanks are shipped off-site for reuse provide the name, address and phone number of the person or business receiving the tanks for reuse.

**NOTE 3:** Attach copies of the disposal receipts for the disposal or treatment of liquid or sludge removed from the tanks

**G. CONTAMINATION INFORMATION:**

TANK ID #	GROUND WATER IN PIT ?	PRODUCT ODOR IN SOIL ?	PRODUCT STAINS IN SOIL ?	NUMBER OF SAMPLES	LABORATORY ( NAME, CITY, STATE, PHONE )
1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	Apex Laboratories, Tigard, OR, 503-718-2323
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	Apex Laboratories, Tigard, OR, 503-718-2323
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	Apex Laboratories, Tigard, OR, 503-718-2323
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	Apex Laboratories, Tigard, OR 503-718-2323
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

**NOTE 1:** Attach a copy of the laboratory report showing the results of all tests on all soil and water samples. The laboratory report must identify sample collection methods, sample location, sample depth, sample type (soil or water), type of sample container, sample temperature during transportation, types of tests, and copies of analytical laboratory reports, including QA/QC information. Include laboratory name, address and copies of chain-of-custody forms.

**NOTE 2:** If contamination is detected, DEQ requires you notify both the UST Program and Clean Up Program within 24 hours of observed contamination and/or analytical results. You must submit a [20 Day Report Form for UST Cleanup Projects](#) to the Cleanup Program and attach a copy of the form to this checklist.

**H. SITE SKETCH:** (Show location of adjacent roads, property lines, structures, dispensers, & all USTs. Show North, general direction of ground slope and soil sample locations. Sketch does not need to be drawn to scale. You may attach a separate drawing.)

See Attached Narrative



**I. SAFETY EQUIPMENT ON JOB SITE:**

Fire Extinguisher:	Type/Size: <u>ABC 20#</u>	Recharge Date: <u></u>
Combustible Gas Detector:	Model: <u>RKI Instruments GX-2012</u>	Calibration Date: <u>6/8/2024</u>
Oxygen Analyzer:	Model: <u></u>	Calibration Date: <u></u>

**J. DECOMMISSIONING:**

All Tanks: N/A = Not Applicable (Check (√) Appropriate Box)	YES	NO	UNKNOWN	N/A
1. All electrical equipment grounded and explosion proof?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Safety equipment on job site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Overhead electrical lines located?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Subsurface electrical lines off or disconnected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Natural gas lines off or disconnected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. No open fires or smoking material in area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Vehicle and pedestrian traffic controlled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Excavation material area cleared?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Rainwater runoff directed to treatment area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Drained and collected product from lines?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Removed product and residual from tank?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Cleaned tank?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Excavated to top of tank?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Removed tank fixtures? (pumps, leak detection equipment)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Removed product, fill and vent lines?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**K. TANK ABANDONMENT IN-PLACE:**

All Tanks: N/A = Not Applicable (Check (√) Appropriate Box)	YES	NO	UNKNOWN	N/A
16. Sampling plan approved by DEQ? Date: <u></u> DEQ Staff: <u></u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Contamination concerns fully resolved?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Fill Material? Type: <u></u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**L. TANK REMOVAL:**

All Tanks: N/A = Not Applicable (Check (✓) Appropriate Box)	YES	NO	UNKNOWN	N/A
19. Tank placement area cleared. chocks placed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
20. Purged or ventilated tank to prevent explosion? Method used: <u>Air compressor / eductor</u> Meter reading: <u>&lt;5% LEL</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Were chains or steel cables wrapped around tank for removal?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Tank removed, set on ground, blocked to prevent movement?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
23. Tank set on truck and secured with straps(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
24. Tank labeled before leaving site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**M. SITE ASSESSMENT:**

All Tanks: N/A = Not Applicable (Check (✓) Appropriate Box)	YES	NO	UNKNOWN	N/A
25. Site assessed for contamination? See OAR 340-122-0340	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26. Soil samples taken and analyzed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27. Was contamination found? Date/Time: <u>6/28/2024</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28. Was hazardous waste determination made for tank contents (Liquids/sludges)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**N. REQUIRED SIGNATURES:**

I have personally reviewed this decommissioning checklist and site assessment report and the attachments and find them to be true and complete. *7/7 pages*

Permittee or Tank Owner: Rodney McLean

(Please Print)

Permittee or Tank Owner: *Rodney McLean* *Riddick Road*  
(Signature) *principles LLC* Date: 07-08-2024

I have personally reviewed this decommissioning checklist and site assessment report and the attachments and find them to be true and complete.

Licensed Supervisor: Matthew Luczak

(Please Print)

Licensed Supervisor: *Matthew Luczak* Date: 7/8/2024  
(Signature)

I have personally reviewed this decommissioning checklist and site assessment report and the attachments and find them to be true and complete.

Executive Officer: Randall J. Boese

Licensed Service Provider (Please Print)

Executive Officer: *Randall J. Boese* Date: 7/8/2024  
Licensed Service Provider (Signature)

#### **O. REPORT FILING:**

This report signed by the permittee or tank owner, licensed supervisor and executive officer of the Service Provider, complete with all applicable attachments, must be filed with the DEQ regional office within 30 days after the excavation is backfilled or change-in-service is complete. **Do not wait until any site related cleanup project is completed.** Contact the DEQ regional office prior to filing this report where special circumstances exist at the site (such as water in pit, remaining pockets of contamination, etc.).

#### **P. HELP WITH THIS REPORT:**

If you have any questions about this decommissioning checklist and site assessment report, please phone your DEQ Regional Office. You can also phone the UST Program's toll-free number, 1-800-742-7878. This is a message answering machine for calls made within Oregon. Underground Storage Tank Program staff will return your calls within 24 hours. You can also send an e-mail to [tanks.info@deq.oregon.gov](mailto:tanks.info@deq.oregon.gov). Our regional staff are also available to answer questions regarding tank decommissioning or change-in-service requirements (see below for telephone numbers).

#### **Q. COPIES OF THE GENERAL PERMIT TO DECOMMISSION OR COMPLETE A CHANGE-IN-SERVICE:**

Obtain copies of the general permit to decommission or complete a change-in-service conditions and requirements, UST Program rules and laws and UST Cleanup rules and laws at:

1. Any of the DEQ offices listed below,
2. By calling the UST HELPLINE at 1-800-742-7878,
3. Send an e-mail to [tanks.info@deq.oregon.gov](mailto:tanks.info@deq.oregon.gov) or
4. Downloading from the UST home page at:

<https://www.oregon.gov/deq/tanks/Pages/UST-Forms.aspx>

NORTHWEST REGION  
700 NE MULTNOMAH ST.  
PORTLAND, OR 97232 Phone:  
503-229-5263  
Fax: 503-229-6945

WESTERN REGION / EUGENE  
165 EAST 7TH AVE., SUITE 100  
EUGENE, OR 97401  
Phone: 541-686-7838  
Fax: 541-686-7551

WESTERN REGION / MEDFORD  
221 STEWART AVE., SUITE 201  
MEDFORD, OR 97501  
Phone: 541-776-6010  
Fax: 541-776-6262





EUGENE  
32986 Roberts Court, Coburg, OR 97408  
P.O. Box 40187, Eugene, OR 97404  
{541} 484-9484

PORTLAND  
25195 SW Parkway Ave., Suite 207  
Wilsonville, OR 97070  
{503} 570-9484

July 8, 2024

Dave Pardue  
Department of Environmental Quality  
Underground Storage Tank Program  
700 NE Multnomah Street, Suite 600  
Portland, OR 97232-4100

RE: **UST Decommissioning (by Removal) Soil Sampling  
Request for Administrative Closure**  
Interstate Distributor / Ridder Road LLC  
10110 SW Ridder Road, OR  
USTC 03-97-0739 (**Closed**) / 03-07-0289 (**Closed**)  
UST Facility ID 7506

Dear Mr. Pardue:

On behalf of the Ridder Road LLC, BB&A Environmental (BB&A) is submitting this letter report documenting decommissioning by removal four (4) underground storage tanks (USTs), and petroleum-contaminated soil that was discovered at the former Interstate Distributor facility located at 10110 SW Ridder Road, in Wilsonville, Oregon.

## **1.0 SITE DESCRIPTION**

### **1.1 Location and Legal Description**

The *subject property* is identified as the *Former Interstate Distributing Co* (currently *Sunbelt Rental*) located at 10110 SW Ridder Road, in Wilsonville, Oregon (see **Figures 1, 2, and 3, Appendix A**). Clackamas County identifies the *subject property* as tax lots 2400, 2500, 2700 of Map 31W11. The *subject property* is approximately 30.92 acres in size.

### **1.2 Subject Property Description**

The *subject property* formerly operated as a trucking distribution, administration, and maintenance facility. The *subject property* is developed with a maintenance building, adjoining administrative offices, and surrounding asphalt parking areas. The *subject property* formerly operated two (2) 20,000 gallon diesel underground storage tanks (USTs), one (1) 4,000 gallon motor oil UST, and one (1) 6,000 gallon gasoline UST. The USTs were located directed south of the dispenser islands on the east side of the maintenance building. The eight (8) fuel dispensers were located on four (4) dispenser islands. Three (3) of the fuel islands were covered by a canopy.

### **1.3 USTs Out of Service Procedures**

In 2020, the four (4) USTs at the *subject property* were administratively taken out of service, and at that time, all four (4) USTs were pumped and rinsed of available product using a pump truck by Oil Re-Refining (ORRCO).

## **2.0 HYDROGEOLOGIC SETTING**

### **2.1 Physical Setting**

The *subject property* and surrounding area lie within the northern Willamette Valley physiographic division of Oregon. The *subject property* and surrounding area are level, although regional topography dips gently to the southwest. The elevation of the *subject property* is approximately 217 feet above mean sea level<sup>1</sup>.

### **2.2 Local and Regional Geologic and Hydrogeologic Conditions**

According to the U.S. Geological Survey Water-Supply Paper 1967, titled *Geology and Geologic Hazards of Northwestern Clackamas County, Oregon*, the *subject property* and adjacent/nearby properties appear to be underlain by Quaternary Lacustrine Sediments (Qws), known as the *Willamette Silt Formation*, composed of fine sandy silt and clay.

According to a soil survey compiled by the U.S. Department of Agriculture's Natural Resource Conservation Service (USCS), the dominant soils underlying the *subject property* and surrounding area are identified as the Salem silt loam and the Salem gravelly silt loam. According to survey information, these soils are formed on stream terraces and are well-drained. Soil profiles under this soil classification are typified by the upper silt loam layer from the surface to eight (8) inches BLS, gravelly clay loam to 24 inches BLS, and very gravelly loamy sand to a depth of 60 inches.

Based on historical onsite borings completed onsite in 2020, local stratigraphy appears to consist of a gravelly silt from near surface to a depth of approximately fifteen (15) below land surface (BLS), beneath which lies a dense red clay. Groundwater was encountered at a depth of approximately 30 to 35 feet BLS (15 to 20 feet below the UST cavity) under semi-confined conditions in former push probe P8 (April 2020), located adjacent to the east side of the former UST cavity. Groundwater was not encountered in former push probe P10 installed at southwest corner of the UST cavity to a depth of 30 feet BLS.

A review of drillers logs on file with the Oregon Department of Water Resources (WRD) indicated that the shallow groundwater encountered at the site may be artificially created by the tank cavity for the USTs which holds water due to low permeability soils. The review focused on wells from 20 to 35 feet deep and 0.2 to 0.75 miles from the *subject property*. Drillers logs from 26120 SW Parkway Ave, Wilsonville, OR located 0.7 miles east (CLAC18289) of the site did not encounter groundwater in wells installed to a depth of 35 feet. At 9565 SW Ridder Rd (0.2 miles east), drillers logs (CLAC74290) show no groundwater down to a depth of 25 feet.

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<sup>1</sup>

Google Earth® Elevation Datum, dated May 8, 2019.

### **3.0 UST DECOMMISSIONING**

#### **3.1 Utility Locates**

Prior to initiating excavation activities, a utility locate request was generated using the Oregon 811 Utility Notification Center. In addition, a private utility locate was conducted by APS Locating Inc. All utilities within the excavation area were identified. Lastly, an electrician disconnected all electrical wiring from the electrical panel to the fuel dispenser pumps and the four (4) USTs.

#### **3.2 Fuel Dispenser Removal and Product Line Flushing**

On June 3, 2024, the fuel dispensers were removed for offsite metal recycling. Jammie's Environmental Inc. was onsite to vacuum extract any residual fuel within the product lines and four (4) USTs. At this same time, the product lines were flushed with water, and all available rinse water and product was vacuum extracted from the product lines. The four (4) USTs were rinsed and all available fluids were vacuum extracted from the USTs (Note that the USTs had previously been pumped and rinsed using a pump truck in 2020). The product and rinse water (265 gallons total) were ultimately recycled at Oil Re-Refining (ORRCO) in Portland, Oregon.

#### **3.3 Soil Sampling – Product Line and Fuel Dispensers**

On June 3, 2024, the concrete over the product lines and USTs was cut, and removed for offsite recycling. On June 4, 2024, the product lines between the fuel dispensers were removed, and soil samples were collected from native soil beneath the fuel dispensers and product lines north of the UST cavity. It should be noted, that soil samples were not collected beneath the dispensers on fuel island number two (2), due to pea gravel extending to a depth of 8.5 feet below land surface (BLS). The soil samples beneath these fuel dispensers were collected on June 10, 2024, using a track-mounted Geoprobe® 7822 rig, and push-probe technology, rods, and equipment. Soil cores from each boring were collected using hollow, stainless steel core barrels approximately 60 inches in length and 3.25 inches in diameter. Additional core barrels are added as the probe is advanced. Subsurface soil samples were retrieved within 60-inch long clear plastic tubes, 2.625 inches in diameter, inserted within the lead core barrel.

To collect soil samples beneath the north and south fuel dispensers of fuel island #2, direct push probes DP-1 and DP-2 were advanced to a depth of 10 feet below land surface (BLS). Each of these probes were found to contain pea gravel to a depth of 8.5 feet, beneath which a silty clay was encountered. No obvious evidence of soil contamination was noted in soil beneath the fuel dispensers and product lines. Soil samples were collected from these direct push probes at the uppermost native soil encountered at 8.5 feet BLS (I2-DN-8.5' and I2-DS-8.5').

All soil samples were collected by EPA Method 5035A, using new Terra Core® samplers and laboratory-prepared 40 milliliter (ml) glass VOA vials with appropriate methanol preservative; plus collection of a laboratory-supplied four (4) ounce glass container. Each four (4) ounce soil sample container was filled to maximize volume and minimize headspace. New Terra Core® samplers were used for each sample (i.e., no Terra Core® samplers were re-used). The samples were collected using clean nitrile gloves. Each clean four (4) ounce glass jar was sealed with threaded, teflon-lined caps. The jars were filled such that remaining headspace volume was minimized. The sample jars were uniquely labeled, logged on a chain-of-custody document, and placed on ice in an insulated portable cooler. All soil samples were delivered to Apex Laboratories in Tigard, Oregon, for laboratory analysis of Total Petroleum Identification (TPH) by Method NWTPH-HCID.

**Dispenser / Product Line Soil Analytical Results:** Gasoline- and oil-range TPH were not detected in any of the soil samples from below the dispensers and product lines. Of the 14 soil samples collected, five (5) were found to contain diesel-range TPH at concentrations ranging from 57.4 to 966 milligrams per kilogram (mg/kg), or parts per million (ppm).



### **3.4 Excavating Operations and Periodic Monitoring of Soil**

During excavation of soil above the four (4) USTs, excavated soil was periodically monitored using an Organic Vapor Meter with Photoionization Detector (OVM-PID). During the periodic monitoring, a pocket of soil contamination was noted between the two (2) 20,000-gallon USTs, in the vicinity of a former catch basin, and an unknown metal structure that had been covered by a steel plate. This soil was placed on, and covered with visqueen plastic sheeting. Based on field measurements, the extent of this small area of petroleum-contaminated soil appeared to be approximately eight (8) feet north-south by four (4) feet east-west, and to a depth of approximately six (6) feet below land surface (BLS).

Two (2) composite soil samples were collected from the segregated contaminated soil. Laboratory analysis of the two (2) composite soil samples detected oil-range TPH at a concentration of 43.4 ppm, gasoline-range TPH at 35 ppm, ethylbenzene at 0.0522 ppm, and xylenes at 0.49 ppm. A soil disposal permit was obtained from Waste Management, and the approximately 13.57 tons of contaminated soil was disposed of at the Waste Management Hillsboro Landfill. The complete laboratory report is provided in **Attachment B**, and the soil disposal receipt is provided in **Attachment C**.

### **3.5 UST Inerting and Removal**

Prior to removal, the USTs were inerted by ventilation using an air compressor and eductor apparatus. Prior to removal, the interior of the USTs were inspected (using a flashlight and/or taking interior photographs) to confirm that the interior was clean and absent of residual fuel. Upon confirming that the tank atmosphere was safe for removal, that is, less than five (5) percent of the lower explosive limit (LEL), the four (4) USTs were removed in large pieces, and then placed into a 40-yard drop box, crushed, and hauled off for disposal as solid waste by Republic Services.

### **3.6 Soil Sampling – Beneath Former USTs**

Upon removal of the USTs, soil samples were collected from native soil beneath the north and south ends of the 4,000-gallon motor oil UST, and 6,000-gallon gasoline UST using the bucket of the excavator. Similarly, soil samples were collected from native soil beneath the middle and south end of the eastern 20,000-gallon diesel UST using the excavator bucket. However, due to the volume of pea gravel and depth of the UST cavity, the north soil sample beneath the eastern 20,000-gallon UST, and all three (3) soil samples beneath the western 20,000-gallon diesel UST were collected after backfill using a using a track-mounted Geoprobe® 7822 rig, and push-probe technology, rods, and equipment.

The 4,000-gallon motor oil UST, and 6,000-gallon gasoline UST were identified as being eight (8) feet in diameter, with a two (1) foot burial, and one (1) foot of base pea gravel beneath the USTs. Soil samples collected beneath the 4,000-gallon motor oil UST and 6,000-gallon gasoline UST were collected from native soil at a depth of approximately 11 feet BLS, and were labeled 4K-N-11', 4K-S-11', 6K-N-11', and 6K-S-11'.

The two (2) 20,000-gallon diesel USTs were identified as being 10 feet in diameter, having approximately two (2) to three (3) foot burial, and a base of at least one (1) foot of pea gravel. Soil samples collected beneath the two (2) 20,000-gallon USTs were labeled E20K-N-13.5'-14', E20K-M-15', E20K-S-13.5', W20K-N-13.5'-14', W20K-M-13.5'-14', and W20K-S-13.5'-14'.

The soil analytical results for all soil samples are provided in **Table 1**. The complete laboratory report is provided in **Attachment B**.

**Table 1: UST Decommissioning Soil Analytical Results**

All concentrations in parts per million (ppm) or milligrams per Kilogram (mg/Kg).  
Where shaded not analyzed.  
**ND** (<0.2) : Indicates not detected above method-reporting limit identified in parentheses  
P Line: Product Line DP: Direct-Push Probe (DP1 through DP7)

SOIL SAMPLE IDENTIFICATION (Depth)		Total Petroleum Hydrocarbons (TPH)			Petroleum Related	
		Gasoline-Range TPH	Diesel-Range TPH	Oil-Range TPH	Benzene	Toluene
Confirmation Soil Samples – UST Decommissioning (2024)						
I1-DN-2.5' (Island #1 - N Dispenser)		ND<23.3	ND<58.1	ND<116		
DP1 / I2-DN-8.5' (Island #2 - N Dispenser)		ND<25.5	ND<63.6	ND<127		
DP2 / I2-DS-8.5' (Island #2 - S Dispenser)		ND<23.3	<b>274</b>	ND<42		
I3-DN-3' (Island #2 - N Dispenser)		ND<23.5	<b>695</b>	ND<43.9		
I3-DS-3' (Island #3 - S Dispenser)		ND<23.7	ND<59.3	ND<119		
I4-DN-2' (Island #4 - N Dispenser)		ND<24.7	<b>134</b>	ND<46		
I4-DM-2' (Island #4 - Mid Dispenser)		ND<22.1	ND<55.3	ND<111		
I4-DS-2' (Island #4 - S Dispenser)		ND<24.6	ND<61.6	ND<123		
PL-1/2-2.5' (P line between Islands 1&2)		ND<22.5	ND<56.3	ND<113		
PL-2/3-3' (P line between Islands 2&3)		ND<22.8	<b>57.4</b>	ND<43.5		
PL-3/4M-2' (PL between Islands 3&4)		ND<25.1	<b>966</b>	ND<45.6		
PL-3/4N-2' (PL between Islands 3&4)		ND<23	ND<57.4	ND<115		
E Elbow PL-2' (Elbow E of S Disp #3)		ND<21.9	ND<54.8	ND<110		
DP3 / PL Trench-3' (PL trench NE)		ND<23.3	ND<53.3	ND<117		
E20K-N-13.5'-14' (E 20K UST)		ND<24.2	ND<60.6	ND<121		
E20K-M-15' (E 20K UST)		ND<23.5	ND<58.8	ND<118		
E20K-S-13.5'-14' (E 20K UST)		ND<23.7	<b>4,050</b>	ND<118	ND<0.0117	ND<0.0586
W20K-N-13.5'-14' (W 20K UST)		ND<23.8	ND<59.4	ND<119		
W20K-M-13.5'-14' (W 20K UST)		ND<23	ND<57.6	ND<115		
W20K-S-13.5'-14' (W 20K UST)		ND<23.5	<b>409</b>	ND<43.8		
4K-N-11' (4K Oil UST)		ND<25.3	ND<63.3	ND<127		
4K-S-11' (4K Oil UST)		ND<26.2	ND<65.4	ND<131		
6K-N-11' (6K Gas UST)		ND<26.9	ND<67.2	ND<134		
6K-S-11' (6K Gas UST)		ND<24.6	ND<61.4	ND<123		
COMP1 (Composite Sample)		ND<5.69	ND<54.1	<b>43.4</b>	ND<0.0114	ND<0.0569
COMP2 (Composite Sample)		<b>35.0</b>	ND<19.3	ND<38.6	ND<0.0103	ND<0.0517
Soil Ingestion, Dermal Contact, and Inhalation	Occupational	20,000	14,000	Site Specific	37	88,000
	Construction Worker	9,700	4,600	Site Specific	380	28,000
	Excavation Worker	>Max	>Max	Site Specific	11,000	770,000
Occupational Volatilization to Outdoor Air		69,000	>Max	Site Specific	50	>Csat
Occupational Leaching to Groundwater		130	>Max	Site Specific	0.10	490





### **3.7 Push-Probe Soil Sampling**

Due to the volume of pea gravel and depth of the UST cavity, the north soil sample beneath the eastern 20,000-gallon UST, and all three (3) soil samples beneath the western 20,000-gallon diesel UST were collected after backfill using a track-mounted Geoprobe® 7822 rig, and push-probe technology, rods, and equipment. These soil samples were collected on June 10, 2024, using a track-mounted Geoprobe® 7822 rig, and push-probe technology, rods, and equipment.

To collect the soil samples beneath the 20,000-gallon diesel USTs, direct-push probes DP-4 through DP-7 were advanced to depths of 18 to 20 feet BLS. Groundwater was not encountered in any of the push probes. Each of these probes were found to contain pea gravel to a depth of approximately 13 to 13.5 feet BLS, beneath which a silty clay was encountered. No obvious evidence of soil contamination was noted in soil beneath the northern half of the two (2) 20,000-gallon USTs; however, a thin band of grey-stained contaminated soil (less than four [4] inches in vertical thickness) was noted beneath the southern end of each UST. Soil samples were collected from these direct-push probes at the uppermost native soil encountered at 13.5 to 14 feet BLS (W20K-N-13.5-14', W20K-M-13.5-14', W20K-S-13.5-14' and E20K-N-13.5'-14'). The sample depths and observations were more accurate than sampling procedures using the excavation bucket.

All soil samples were collected by EPA Method 5035A, using new Terra Core® samplers and laboratory-prepared 40 ml glass VOA vials with appropriate methanol preservative; plus collection of a laboratory-supplied four (4) ounce glass container. Each four (4) ounce soil sample container was filled to maximize volume and minimize headspace. New Terra Core® samplers were used for each sample (i.e., no Terra Core® samplers were re-used). The samples were collected using clean nitrile gloves. Each clean four (4) ounce glass jar was sealed with threaded, teflon-lined caps. The jars were filled such that remaining headspace volume was minimized. The sample jars were uniquely labeled, logged on a chain-of-custody document, and placed on ice in an insulated portable cooler. All soil samples were delivered to Apex Laboratories in Tigard, Oregon, for laboratory analysis of Total Petroleum Identification (TPH) by Method NWTPH-HCID.

**UST Confirmation Soil Sampling Analytical Results:** Gasoline-, diesel-, and oil-range TPH were not detected in confirmation soil samples beneath the 4,000-gallon motor oil UST, nor beneath the 6,000-gallon gasoline UST. In addition, gasoline-, diesel-, and oil-range TPH were not detected beneath the northern half of the two (2) 20,000-gallon diesel USTs. Further, gasoline- and oil-range TPH were not detected beneath the southern half of these USTs. However, beneath the southern end of the 20,000-gallon USTs, diesel-range TPH was detected at 409 ppm beneath the western 20,000-gallon UST, and at 4,050 ppm beneath the eastern 20,000-gallon UST. Soil sample E20K-S-13.5-14' was additionally analyzed for benzene, toluene, ethylbenzene, and xylenes, per EPA Method 8260B, and polyaromatic hydrocarbons (PAHs) per EPA Method 8270SIM.

### **3.8 Risk-Based Contaminant Concentration Comparison**

Included in **Table 1** are reasonably applicable Risk-Based Concentrations (RBCs) developed for the *subject property*. The *subject property* operates as an equipment rental facility, and all adjacent properties are of non-residential use, including Bonneville Power electrical substations to the east and northeast, a Republic Services waste and recycling transfer station to the north, a glass manufacturing facility to the east, and a large Amazon parking lot to the south. As such, reasonably applicable RBCs for the *subject property* include Occupational, Construction Worker, and Excavation Worker receptor scenarios. None of the detected contaminants exceed any applicable RBCs.

### **3.9 Backfill/Resurfacing**

Upon completion of UST decommissioning and site assessment activities, the excavation area was backfilled with existing pea gravel, which was covered with erosion fabric, and then covered with imported three-quarter (3/4) inch minus gravel soil. At this time, the catch basins were replaced with a single heavy duty catch basin near the center of the excavation. The 3/4" gravel was compacted in one-half (0.5) to one (1) foot lifts, prior to paving with four (4) inches of asphalt.

### **3.10 Release Reporting**

On June 28 2024, the release was reported to the DEQ via the DEQ's online reporting website. The DEQ has yet to issue a leaking underground storage tank (LUST) file number for the site.

## **4.0 HISTORICAL CONTAMINATION**

In 2007, a spill of approximately 40 gallons of diesel fuel occurred at the subject site near the west end of the registered fuel dispenser island. A release was reported to the DEQ and the DEQ assigned the release as LUST file no. 03-07-0289. A total of approximately 61.88 tons of petroleum contaminated soil was excavated from the spill area and eventually transported off-site for disposal to Hillsboro Landfill for disposal. Residual diesel-range contamination left in place at the site beneath the footing for the canopy was detected at 1,830 ppm. The DEQ issued a no further action (NFA) determination for the site. The residual contamination is similar in magnitude to the contaminant concentrations detected beneath the southern end of the 20,000-gallon USTs. Based on the findings of push-probes advanced beneath and adjacent to the UST cavity, seasonal groundwater was found to occur at a depth of 30 to 35 feet BLS, approximately 15 to 20 feet below the depth of residual soil contamination at the bottom of the UST cavity.

Based on these findings, and the fact that detected contaminants were all well below applicable RBCs, BB&A recommend that an administrative NFA determination be issued for the site and most recent leaking underground storage tank (LUST) file.

Should you have any questions regarding this information, please do not hesitate to contact me at your convenience.

Sincerely,

BB&A Environmental



Stephen M. Omo, RG  
Project Manager

**List of Attachments:**

**Attachment A:** Figures

**Attachment B:** Laboratory Reports and Chain of Custody Documents

**Attachment C:** Push-Probe Logs

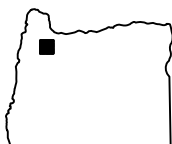
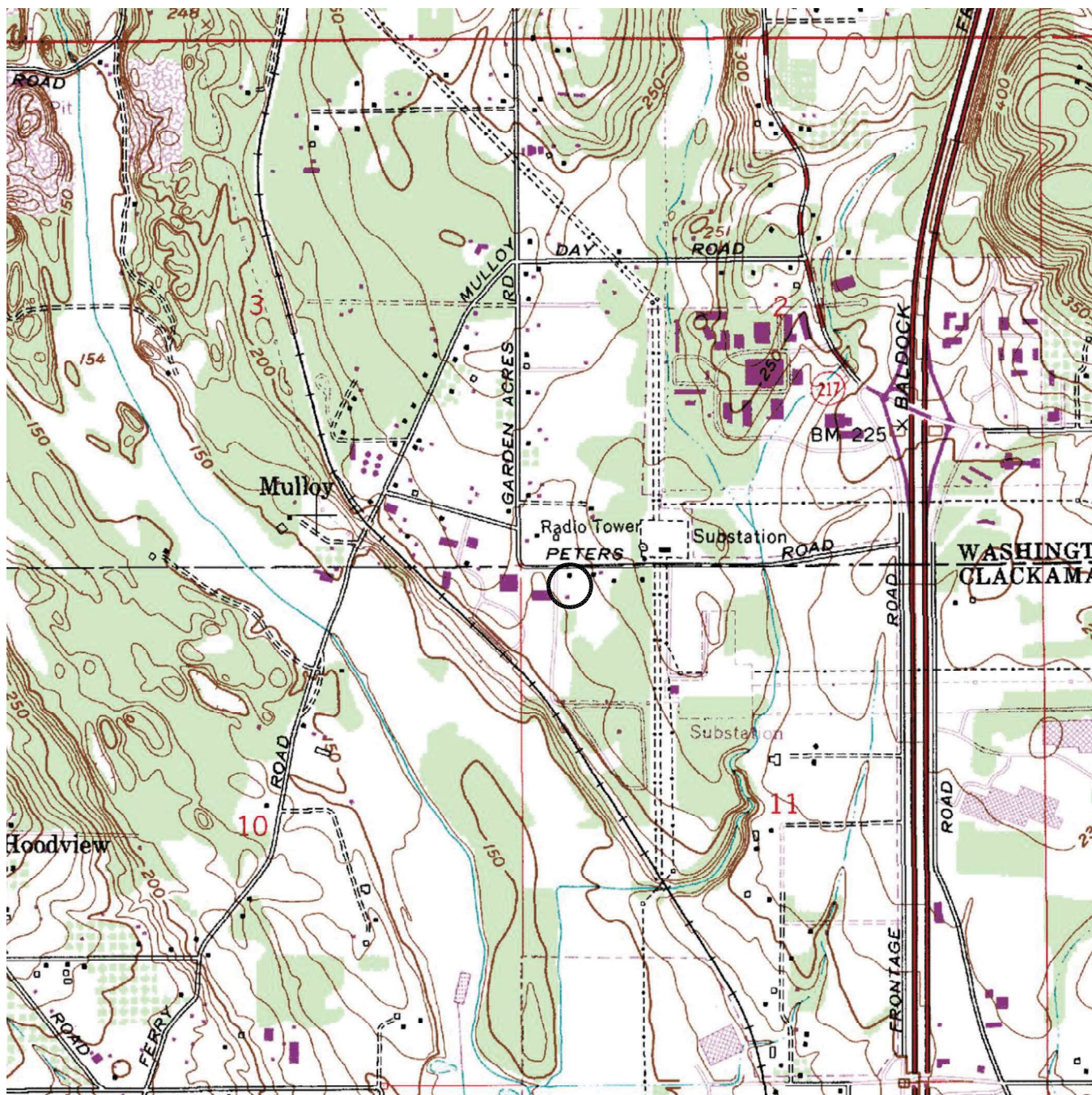
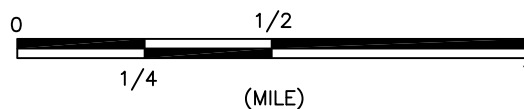
**Attachment D:** Soil and Fuel/Rinse Water Disposal Receipts

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# ATTACHMENT A

Figures

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OREGON



SITE LOCATION

FIGURE 1

INTERSTATE DISTRIBUTOR CO., 10110 Ridder Rd., WILSONVILLE, OR

SITE VICINITY MAP



EUGENE OFFICE  
32986 Roberts Ct.  
Coburg, OR  
ph: 541.484.9484

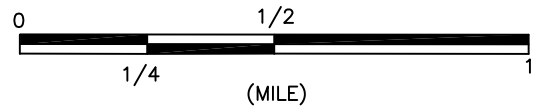
PORTLAND OFFICE  
25195 SW Parkway Ave., #207  
Wilsonville, OR  
ph: 503.570.9484

www.BBAENV.COM

Job Code: IDC01DEC.24UC
CADD File: IDC01.DWG
Scale: AS SHOWN
Drawn: KATHRYN DAVIS DESIGNS
Checked: STEPHEN OMO
Date: 06/12/24

SOURCE: USGS TOPOGRAPHIC QUADRANGLE  
SERIES: 7.5 MINUTES, SHERWOOD, OR





 SITE LOCATION



EUGENE OFFICE  
32986 Roberts Ct.  
Coburg, OR  
ph: 541.484.9484

PORTLAND OFFICE  
25195 SW Parkway Ave., #207  
Wilsonville, OR  
ph: 503.570.9484

[www.BBAENV.COM](http://www.BBAENV.COM)

INTERSTATE DISTRIBUTOR COMPANY  
AERIAL PHOTOGRAPH  
10110 RIDDER ROAD, WILSONVILLE, OREGON

PROJECT CODE:  
IDC01DEC.24UC

DATE:  
07/05/24

SCALE:  
AS SHOWN

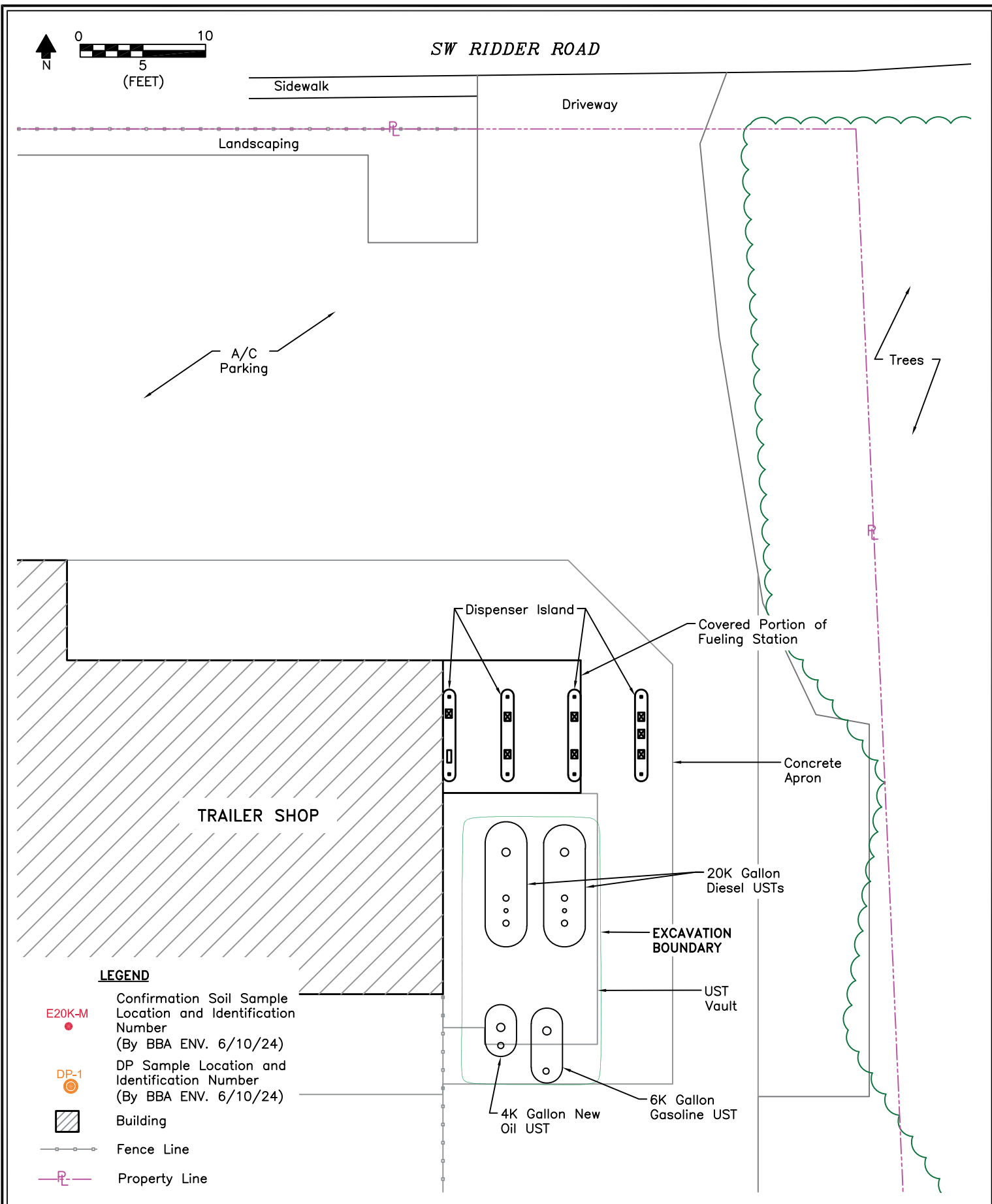
DRAWN:  
K.D.DESIGNS

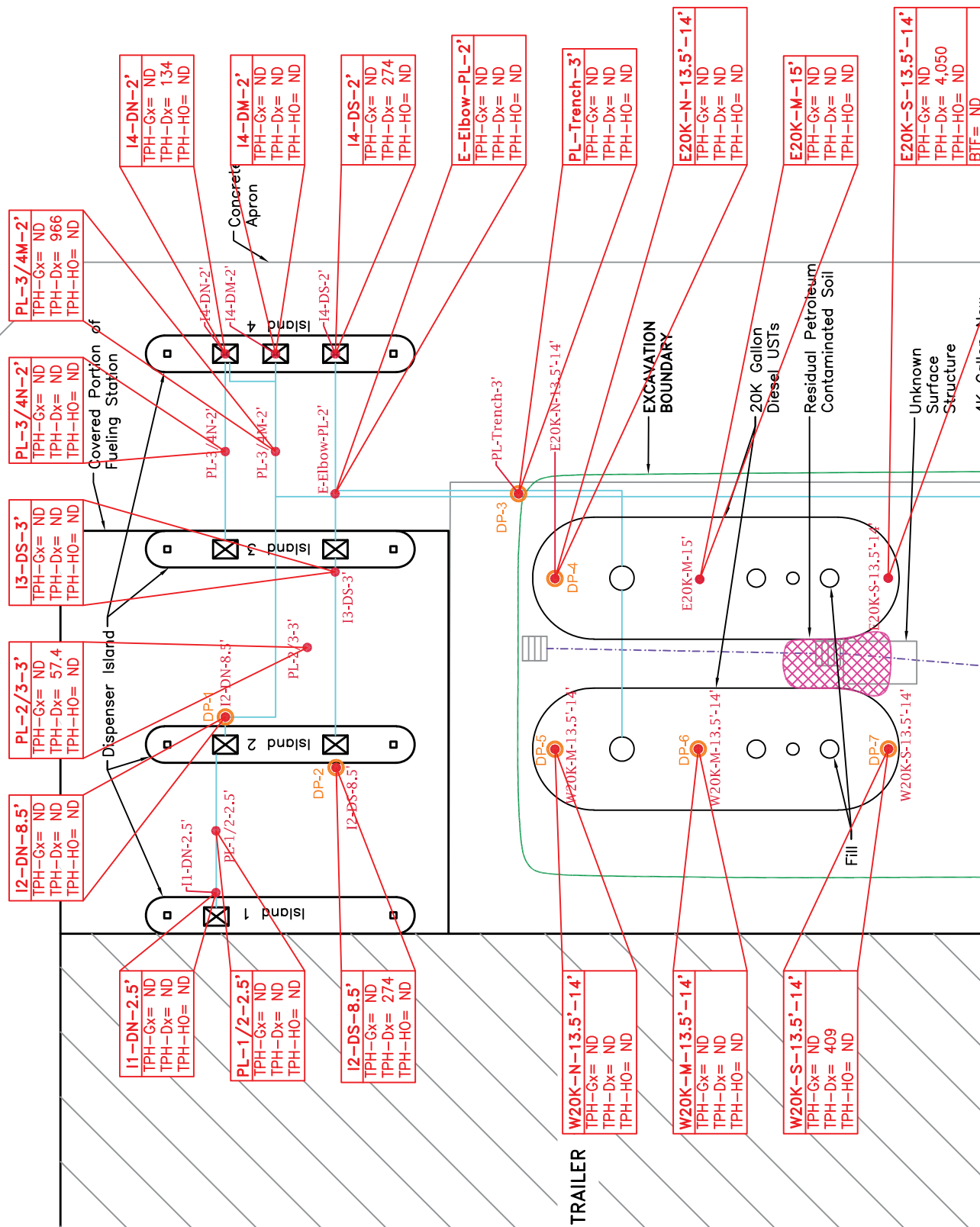
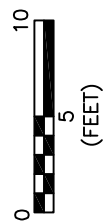
CHECKED:  
STEPHEN OMO

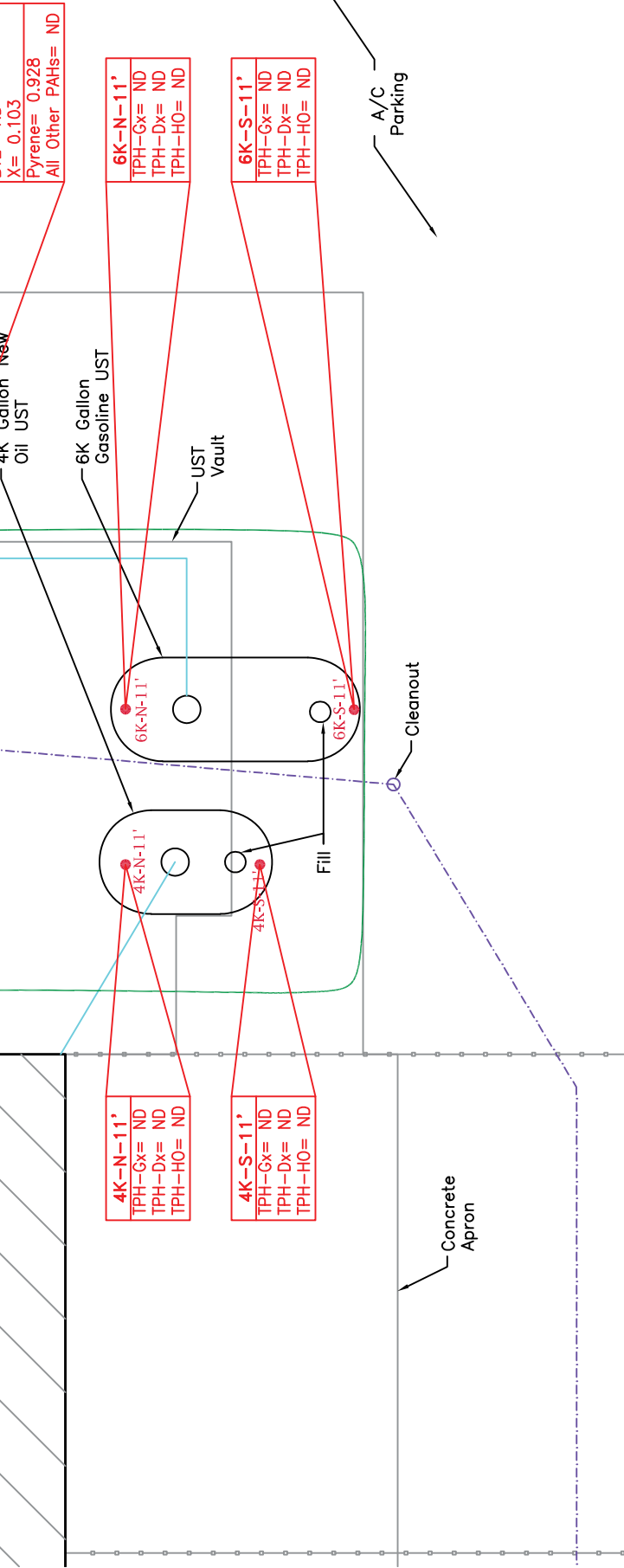
FIGURE #:

2









LEGEND

Total Petroleum Hydrocarbons per Northwest Methods  
NWTPH-Gx (Gasoline), NWTPH-Dx (Diesel), & NWTPH-HO (Heavy Oil);  
BTEX (Volatile Organic Compounds (VOCs)) per EPA Method 8260B;  
Polycyclic Aromatic Hydrocarbons (PAHs) per EPA Method 8270S/M;  
Units in parts per million (ppm);  
ND= Not Detected

E20K-S-13.5'-14'
TPH-Gx= ND
TPH-Dx= 4.050
TPH-HO= ND
BTEX= ND
X= 0.103
Pyrene= 0.928
All Other PAHs= ND

11-DN-2.5'

DP-1

- Confirmation Soil Sample Location and Identification Number (By BBA ENV. 6/10/24)
- DP Sample Location and Identification Number (By BBA ENV. 6/10/24)
- Building
- Fence Line
- Catch Basin
- Stormwater Line

DEFINITIONS:

- A/C Asphalt Concrete
- MO Motor Oil
- HO Hydraulic Oil
- HS High Sulfur Diesel
- WO Waste Oil
- DW Double Wall
- ATF Automatic Transmission Fluid
- AF Antifreeze



EUGENE OFFICE  
32986 Roberts Ct.  
Coburg, OR  
ph: 541.484.9484

PORTLAND OFFICE  
25195 SW Parkway Ave., #207  
Wilsonville, OR  
ph: 503.570.9484

www.BBAENV.COM

SITE PLAN SHOWING SOIL ANALYTICAL DATA  
INTERSTATE DISTRIBUTOR COMPANY  
10110 SW RIDDER ROAD, WILSONVILLE, OREGON

PROJECT CODE: IDC01DEC.24UC	DATE: 07/05/24	SCALE: 1"=30'	DRAWN: K.D.DESIGNS	CHECKED: STEPHEN OMO
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FIGURE #:

4

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# ATTACHMENT B

Laboratory Report

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ANALYTICAL REPORT

AMENDED REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Wednesday, July 3, 2024

Steve Omo

BB&A Environmental - Wilsonville

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

RE: A4F0906 - R McLean Wilsonville - IDC01DEC.24UC

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A4F0906, which was received by the laboratory on 6/6/2024 at 8:00:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: [DAuvil@apex-labs.com](mailto:DAuvil@apex-labs.com), or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.

(See Cooler Receipt Form for details)

Default Cooler      3.1      degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

*The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.*

Darrell Auvil, Client Services Manager

**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
IDC01-I4-DS-2'	A4F0906-01	Soil	06/04/24 08:00	06/06/24 08:00
IDC01-I4-DM-2'	A4F0906-02	Soil	06/04/24 08:15	06/06/24 08:00
IDC01-I4-DN-2'	A4F0906-03	Soil	06/04/24 08:25	06/06/24 08:00
IDC01-I3-DN-3'	A4F0906-04	Soil	06/04/24 09:35	06/06/24 08:00
IDC01-I3-DS-3'	A4F0906-05	Soil	06/04/24 09:30	06/06/24 08:00
IDC01-I1-DN-2.5'	A4F0906-06	Soil	06/04/24 10:55	06/06/24 08:00
IDC01-E Elbow PL-2'	A4F0906-07	Soil	06/04/24 08:40	06/06/24 08:00
IDC01-PL-3/4N-2'	A4F0906-08	Soil	06/04/24 11:25	06/06/24 08:00
IDC01-PL-3/4M-2'	A4F0906-09	Soil	06/04/24 11:30	06/06/24 08:00
IDC01-PL-2/3-3'	A4F0906-10	Soil	06/04/24 11:15	06/06/24 08:00
IDC01-PL-1/2-2.5'	A4F0906-11	Soil	06/04/24 11:10	06/06/24 08:00
IDC01-E20K-M-15'	A4F0906-12	Soil	06/04/24 17:00	06/06/24 08:00
IDC01-E20K-S-13.5'	A4F0906-13	Soil	06/04/24 17:15	06/06/24 08:00
IDC01-4K-N-11'	A4F0906-14	Soil	06/05/24 15:40	06/06/24 08:00
IDC01-4K-S-11'	A4F0906-15	Soil	06/05/24 15:30	06/06/24 08:00
IDC01-6K-S-11'	A4F0906-16	Soil	06/05/24 17:00	06/06/24 08:00
IDC01-6K-N-11'	A4F0906-17	Soil	06/05/24 17:10	06/06/24 08:00
IDC01-COMP1	A4F0906-18	Soil	06/05/24 16:00	06/06/24 08:00
IDC01-COMP2	A4F0906-19	Soil	06/05/24 16:05	06/06/24 08:00

Apex Laboratories

*The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.*

Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

BB&A Environmental - Wilsonville

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: R McLean Wilsonville

Project Number: IDC01DEC.24UC

Project Manager: Steve Omo

Report ID:

A4F0906 - 07 03 24 0935

ANALYTICAL CASE NARRATIVE

Work Order: **A4F0906**

**Apex Laboratories**

Amended Report Revision 1:

This report supersedes all previous reports.

A partial final report was sent to the client on 6/20/2024. This report includes all data for the samples received and logged in under work order A4F0906.

Darrell Auvil  
Client Services Manager  
6/27/2028

Apex Laboratories

*The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.*

Darrell Auvil, Client Services Manager





## ANALYTICAL REPORT

## AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## ANALYTICAL SAMPLE RESULTS

## Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>IDC01-I4-DS-2' (A4F0906-01)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	24.6	mg/kg dry	1	06/08/24 04:19	NWTPH-HCID	
Diesel Range Organics	ND	---	61.6	mg/kg dry	1	06/08/24 04:19	NWTPH-HCID	
Oil Range Organics	ND	---	123	mg/kg dry	1	06/08/24 04:19	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	86 %	Limits: 50-150 %	1	06/08/24 04:19	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			81 %	50-150 %	1	06/08/24 04:19	NWTPH-HCID	
<b>IDC01-I4-DM-2' (A4F0906-02)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	22.1	mg/kg dry	1	06/07/24 22:01	NWTPH-HCID	
Diesel Range Organics	ND	---	55.3	mg/kg dry	1	06/07/24 22:01	NWTPH-HCID	
Oil Range Organics	ND	---	111	mg/kg dry	1	06/07/24 22:01	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	96 %	Limits: 50-150 %	1	06/07/24 22:01	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			92 %	50-150 %	1	06/07/24 22:01	NWTPH-HCID	
<b>IDC01-I4-DN-2' (A4F0906-03)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	24.7	mg/kg dry	1	06/07/24 22:25	NWTPH-HCID	
Diesel Range Organics	<b>DET</b>	---	61.8	mg/kg dry	1	06/07/24 22:25	NWTPH-HCID	F-11
Oil Range Organics	ND	---	124	mg/kg dry	1	06/07/24 22:25	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	100 %	Limits: 50-150 %	1	06/07/24 22:25	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			97 %	50-150 %	1	06/07/24 22:25	NWTPH-HCID	
<b>IDC01-I3-DN-3' (A4F0906-04)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	23.5	mg/kg dry	1	06/07/24 22:48	NWTPH-HCID	
Diesel Range Organics	<b>DET</b>	---	58.7	mg/kg dry	1	06/07/24 22:48	NWTPH-HCID	F-11
Oil Range Organics	ND	---	117	mg/kg dry	1	06/07/24 22:48	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	96 %	Limits: 50-150 %	1	06/07/24 22:48	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			91 %	50-150 %	1	06/07/24 22:48	NWTPH-HCID	
<b>IDC01-I3-DS-3' (A4F0906-05)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	23.7	mg/kg dry	1	06/07/24 23:12	NWTPH-HCID	
Diesel Range Organics	ND	---	59.3	mg/kg dry	1	06/07/24 23:12	NWTPH-HCID	
Oil Range Organics	ND	---	119	mg/kg dry	1	06/07/24 23:12	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	99 %	Limits: 50-150 %	1	06/07/24 23:12	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			97 %	50-150 %	1	06/07/24 23:12	NWTPH-HCID	
<b>IDC01-I1-DN-2.5' (A4F0906-06)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		

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## ANALYTICAL REPORT

## AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## ANALYTICAL SAMPLE RESULTS

## Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>IDC01-I1-DN-2.5' (A4F0906-06)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	23.3	mg/kg dry	1	06/07/24 23:36	NWTPH-HCID	
Diesel Range Organics	ND	---	58.1	mg/kg dry	1	06/07/24 23:36	NWTPH-HCID	
Oil Range Organics	ND	---	116	mg/kg dry	1	06/07/24 23:36	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	95 %	Limits: 50-150 %	1	06/07/24 23:36	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			90 %	50-150 %	1	06/07/24 23:36	NWTPH-HCID	
<b>IDC01-E Elbow PL-2' (A4F0906-07)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	21.9	mg/kg dry	1	06/07/24 23:59	NWTPH-HCID	
Diesel Range Organics	ND	---	54.8	mg/kg dry	1	06/07/24 23:59	NWTPH-HCID	
Oil Range Organics	ND	---	110	mg/kg dry	1	06/07/24 23:59	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	95 %	Limits: 50-150 %	1	06/07/24 23:59	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			86 %	50-150 %	1	06/07/24 23:59	NWTPH-HCID	
<b>IDC01-PL-3/4N-2' (A4F0906-08)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	23.0	mg/kg dry	1	06/08/24 00:23	NWTPH-HCID	
Diesel Range Organics	ND	---	57.4	mg/kg dry	1	06/08/24 00:23	NWTPH-HCID	
Oil Range Organics	ND	---	115	mg/kg dry	1	06/08/24 00:23	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	96 %	Limits: 50-150 %	1	06/08/24 00:23	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			89 %	50-150 %	1	06/08/24 00:23	NWTPH-HCID	
<b>IDC01-PL-3/4M-2' (A4F0906-09)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	25.1	mg/kg dry	1	06/08/24 05:06	NWTPH-HCID	
Diesel Range Organics	<b>DET</b>	---	62.8	mg/kg dry	1	06/08/24 05:06	NWTPH-HCID	F-11
Oil Range Organics	ND	---	126	mg/kg dry	1	06/08/24 05:06	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	104 %	Limits: 50-150 %	1	06/08/24 05:06	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			98 %	50-150 %	1	06/08/24 05:06	NWTPH-HCID	
<b>IDC01-PL-2/3-3' (A4F0906-10)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	22.8	mg/kg dry	1	06/08/24 00:47	NWTPH-HCID	
Diesel Range Organics	<b>DET</b>	---	57.0	mg/kg dry	1	06/08/24 00:47	NWTPH-HCID	F-11
Oil Range Organics	ND	---	114	mg/kg dry	1	06/08/24 00:47	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	99 %	Limits: 50-150 %	1	06/08/24 00:47	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			92 %	50-150 %	1	06/08/24 00:47	NWTPH-HCID	
<b>IDC01-PL-1/2-2.5' (A4F0906-11)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		

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ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## ANALYTICAL SAMPLE RESULTS

## Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>IDC01-PL-1/2-2.5' (A4F0906-11)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	22.5	mg/kg dry	1	06/08/24 01:10	NWTPH-HCID	
Diesel Range Organics	ND	---	56.3	mg/kg dry	1	06/08/24 01:10	NWTPH-HCID	
Oil Range Organics	ND	---	113	mg/kg dry	1	06/08/24 01:10	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	92 %	Limits: 50-150 %	1	06/08/24 01:10	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			87 %	50-150 %	1	06/08/24 01:10	NWTPH-HCID	
<b>IDC01-E20K-M-15' (A4F0906-12)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	23.5	mg/kg dry	1	06/08/24 01:34	NWTPH-HCID	
Diesel Range Organics	ND	---	58.8	mg/kg dry	1	06/08/24 01:34	NWTPH-HCID	
Oil Range Organics	ND	---	118	mg/kg dry	1	06/08/24 01:34	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	93 %	Limits: 50-150 %	1	06/08/24 01:34	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			79 %	50-150 %	1	06/08/24 01:34	NWTPH-HCID	
<b>IDC01-E20K-S-13.5' (A4F0906-13)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	23.7	mg/kg dry	1	06/08/24 01:58	NWTPH-HCID	
Diesel Range Organics	<b>DET</b>	---	59.1	mg/kg dry	1	06/08/24 01:58	NWTPH-HCID	
Oil Range Organics	ND	---	118	mg/kg dry	1	06/08/24 01:58	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	123 %	Limits: 50-150 %	1	06/08/24 01:58	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			108 %	50-150 %	1	06/08/24 01:58	NWTPH-HCID	
<b>IDC01-4K-N-11' (A4F0906-14)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	25.3	mg/kg dry	1	06/08/24 02:21	NWTPH-HCID	
Diesel Range Organics	ND	---	63.3	mg/kg dry	1	06/08/24 02:21	NWTPH-HCID	
Oil Range Organics	ND	---	127	mg/kg dry	1	06/08/24 02:21	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	99 %	Limits: 50-150 %	1	06/08/24 02:21	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			81 %	50-150 %	1	06/08/24 02:21	NWTPH-HCID	
<b>IDC01-4K-S-11' (A4F0906-15)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	26.2	mg/kg dry	1	06/08/24 02:44	NWTPH-HCID	
Diesel Range Organics	ND	---	65.4	mg/kg dry	1	06/08/24 02:44	NWTPH-HCID	
Oil Range Organics	ND	---	131	mg/kg dry	1	06/08/24 02:44	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	99 %	Limits: 50-150 %	1	06/08/24 02:44	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			78 %	50-150 %	1	06/08/24 02:44	NWTPH-HCID	
<b>IDC01-6K-S-11' (A4F0906-16)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		

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**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## ANALYTICAL SAMPLE RESULTS

## Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>IDC01-6K-S-11' (A4F0906-16)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	24.6	mg/kg dry	1	06/08/24 03:08	NWTPH-HCID	
Diesel Range Organics	ND	---	61.4	mg/kg dry	1	06/08/24 03:08	NWTPH-HCID	
Oil Range Organics	ND	---	123	mg/kg dry	1	06/08/24 03:08	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	91 %	Limits: 50-150 %	1	06/08/24 03:08	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			80 %	50-150 %	1	06/08/24 03:08	NWTPH-HCID	
<b>IDC01-6K-N-11' (A4F0906-17)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	26.9	mg/kg dry	1	06/08/24 03:32	NWTPH-HCID	
Diesel Range Organics	ND	---	67.2	mg/kg dry	1	06/08/24 03:32	NWTPH-HCID	
Oil Range Organics	ND	---	134	mg/kg dry	1	06/08/24 03:32	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	89 %	Limits: 50-150 %	1	06/08/24 03:32	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			76 %	50-150 %	1	06/08/24 03:32	NWTPH-HCID	
<b>IDC01-COMP1 (A4F0906-18)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0213</b>		
Gasoline Range Organics	ND	---	21.6	mg/kg dry	1	06/06/24 23:44	NWTPH-HCID	
Diesel Range Organics	ND	---	54.1	mg/kg dry	1	06/06/24 23:44	NWTPH-HCID	
Oil Range Organics	<b>DET</b>	---	108	mg/kg dry	1	06/06/24 23:44	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	89 %	Limits: 50-150 %	1	06/06/24 23:44	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			89 %	50-150 %	1	06/06/24 23:44	NWTPH-HCID	
<b>IDC01-COMP2 (A4F0906-19)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0213</b>		
Gasoline Range Organics	ND	---	20.5	mg/kg dry	1	06/07/24 00:05	NWTPH-HCID	
Diesel Range Organics	ND	---	51.4	mg/kg dry	1	06/07/24 00:05	NWTPH-HCID	
Oil Range Organics	ND	---	103	mg/kg dry	1	06/07/24 00:05	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	95 %	Limits: 50-150 %	1	06/07/24 00:05	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			95 %	50-150 %	1	06/07/24 00:05	NWTPH-HCID	

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## ANALYTICAL SAMPLE RESULTS

## Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
IDC01-I4-DN-2' (A4F0906-03)				Matrix: Soil	Batch: 24F0567			
Diesel	134	---	23.0	mg/kg dry	1	06/17/24 21:47	NWTPH-Dx	F-11, Q-39, Q-42
Oil	ND	---	46.0	mg/kg dry	1	06/17/24 21:47	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 82 %		Limits: 50-150 %	1	06/17/24 21:47	NWTPH-Dx	
IDC01-I3-DN-3' (A4F0906-04)				Matrix: Soil	Batch: 24F0567			
Diesel	695	---	22.0	mg/kg dry	1	06/18/24 09:14	NWTPH-Dx	F-11
Oil	ND	---	43.9	mg/kg dry	1	06/18/24 09:14	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 88 %		Limits: 50-150 %	1	06/18/24 09:14	NWTPH-Dx	
IDC01-PL-3/4M-2' (A4F0906-09)				Matrix: Soil	Batch: 24F0567			
Diesel	966	---	22.8	mg/kg dry	1	06/18/24 10:01	NWTPH-Dx	F-11
Oil	ND	---	45.6	mg/kg dry	1	06/18/24 10:01	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 73 %		Limits: 50-150 %	1	06/18/24 10:01	NWTPH-Dx	
IDC01-PL-2/3-3' (A4F0906-10)				Matrix: Soil	Batch: 24F0567			
Diesel	57.4	---	21.7	mg/kg dry	1	06/18/24 06:30	NWTPH-Dx	F-11
Oil	ND	---	43.5	mg/kg dry	1	06/18/24 06:30	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 80 %		Limits: 50-150 %	1	06/18/24 06:30	NWTPH-Dx	
IDC01-E20K-S-13.5' (A4F0906-13RE1)				Matrix: Soil	Batch: 24F0567			
Diesel	4050	---	115	mg/kg dry	5	06/18/24 15:54	NWTPH-Dx	
Oil	ND	---	229	mg/kg dry	5	06/18/24 15:54	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 85 %		Limits: 50-150 %	5	06/18/24 15:54	NWTPH-Dx	
IDC01-COMP1 (A4F0906-18)				Matrix: Soil	Batch: 24F0171			
Diesel	ND	---	19.6	mg/kg dry	1	06/06/24 21:42	NWTPH-Dx	
Oil	43.4	---	39.3	mg/kg dry	1	06/06/24 21:42	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 89 %		Limits: 50-150 %	1	06/06/24 21:42	NWTPH-Dx	
IDC01-COMP2 (A4F0906-19RE1)				Matrix: Soil	Batch: 24F0171			
Diesel	ND	---	19.3	mg/kg dry	1	06/07/24 08:25	NWTPH-Dx	F-26
Oil	ND	---	38.6	mg/kg dry	1	06/07/24 08:25	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 96 %		Limits: 50-150 %	1	06/07/24 08:25	NWTPH-Dx	

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Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## ANALYTICAL SAMPLE RESULTS

## Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>IDC01-COMP1 (A4F0906-18)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0185</b>		<b>V-15</b>
Gasoline Range Organics	ND	---	5.69	mg/kg dry	50	06/06/24 16:06	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 94 %	Limits: 50-150 %	1	06/06/24 16:06	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		107 %	50-150 %	1	06/06/24 16:06	NWTPH-Gx (MS)		
<b>IDC01-COMP2 (A4F0906-19)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0185</b>		<b>V-15</b>
Gasoline Range Organics	35.0	---	5.17	mg/kg dry	50	06/06/24 16:33	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 96 %	Limits: 50-150 %	1	06/06/24 16:33	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		107 %	50-150 %	1	06/06/24 16:33	NWTPH-Gx (MS)		

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## ANALYTICAL SAMPLE RESULTS

## BTEX Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>IDC01-E20K-S-13.5' (A4F0906-13)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0834</b>		<b>H-01</b>
Benzene	ND	---	11.7	ug/kg dry	50	06/25/24 20:02	5035A/8260D	
Toluene	ND	---	58.6	ug/kg dry	50	06/25/24 20:02	5035A/8260D	
Ethylbenzene	ND	---	29.3	ug/kg dry	50	06/25/24 20:02	5035A/8260D	
Xylenes, total	<b>103</b>	---	87.9	ug/kg dry	50	06/25/24 20:02	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	101 %	Limits:	80-120 %	1	06/25/24 20:02	5035A/8260D
Toluene-d8 (Surr)			96 %		80-120 %	1	06/25/24 20:02	5035A/8260D
4-Bromofluorobenzene (Surr)			101 %		79-120 %	1	06/25/24 20:02	5035A/8260D
<b>IDC01-COMP1 (A4F0906-18)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0185</b>		<b>V-15</b>
Benzene	ND	---	11.4	ug/kg dry	50	06/06/24 16:06	5035A/8260D	
Toluene	ND	---	56.9	ug/kg dry	50	06/06/24 16:06	5035A/8260D	
Ethylbenzene	ND	---	28.4	ug/kg dry	50	06/06/24 16:06	5035A/8260D	
Xylenes, total	ND	---	85.3	ug/kg dry	50	06/06/24 16:06	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	102 %	Limits:	80-120 %	1	06/06/24 16:06	5035A/8260D
Toluene-d8 (Surr)			100 %		80-120 %	1	06/06/24 16:06	5035A/8260D
4-Bromofluorobenzene (Surr)			101 %		79-120 %	1	06/06/24 16:06	5035A/8260D
<b>IDC01-COMP2 (A4F0906-19)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0185</b>		<b>V-15</b>
Benzene	ND	---	10.3	ug/kg dry	50	06/06/24 16:33	5035A/8260D	
Toluene	ND	---	51.7	ug/kg dry	50	06/06/24 16:33	5035A/8260D	
Ethylbenzene	<b>52.2</b>	---	25.9	ug/kg dry	50	06/06/24 16:33	5035A/8260D	<b>M-04</b>
Xylenes, total	<b>490</b>	---	77.6	ug/kg dry	50	06/06/24 16:33	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	103 %	Limits:	80-120 %	1	06/06/24 16:33	5035A/8260D
Toluene-d8 (Surr)			101 %		80-120 %	1	06/06/24 16:33	5035A/8260D
4-Bromofluorobenzene (Surr)			96 %		79-120 %	1	06/06/24 16:33	5035A/8260D

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## ANALYTICAL REPORT

## AMENDED REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**

Project Number: IDC01DEC.24UC

Project Manager: Steve Omo

**Report ID:****A4F0906 - 07 03 24 0935**

## ANALYTICAL SAMPLE RESULTS

## Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>IDC01-E20K-S-13.5' (A4F0906-13)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0798</b>		<b>H-02</b>
Acenaphthene	ND	---	84.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	R-02
Acenaphthylene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Anthracene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Benz(a)anthracene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Benzo(a)pyrene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Chrysene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Fluoranthene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Fluorene	ND	---	381	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	R-02
Indeno(1,2,3-cd)pyrene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Naphthalene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Phenanthrene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
<b>Pyrene</b>	<b>298</b>	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 72 %		Limits: 44-120 %	5	06/24/24 17:33	EPA 8270E SIM	
p-Terphenyl-d14 (Surr)		67 %		54-127 %	5	06/24/24 17:33	EPA 8270E SIM	

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Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## ANALYTICAL SAMPLE RESULTS

## Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>IDC01-I4-DS-2' (A4F0906-01)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	80.7	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-I4-DM-2' (A4F0906-02)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	84.4	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-I4-DN-2' (A4F0906-03)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	79.0	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-I3-DN-3' (A4F0906-04)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	82.6	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-I3-DS-3' (A4F0906-05)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	84.2	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-I1-DN-2.5' (A4F0906-06)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	79.6	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-E Elbow PL-2' (A4F0906-07)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	85.4	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-PL-3/4N-2' (A4F0906-08)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	81.2	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-PL-3/4M-2' (A4F0906-09)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	78.4	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-PL-2/3-3' (A4F0906-10)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	83.4	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-PL-1/2-2.5' (A4F0906-11)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	81.0	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-E20K-M-15' (A4F0906-12)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	81.2	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-E20K-S-13.5' (A4F0906-13)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		

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ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## ANALYTICAL SAMPLE RESULTS

## Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>IDC01-E20K-S-13.5' (A4F0906-13)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	77.8	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-4K-N-11' (A4F0906-14)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	76.4	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-4K-S-11' (A4F0906-15)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	73.5	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-6K-S-11' (A4F0906-16)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	77.2	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-6K-N-11' (A4F0906-17)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	70.2	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-COMP1 (A4F0906-18)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0184</b>		
% Solids	90.8	---	1.00	%	1	06/07/24 06:51	EPA 8000D	
<b>IDC01-COMP2 (A4F0906-19)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0184</b>		
% Solids	93.5	---	1.00	%	1	06/07/24 06:51	EPA 8000D	

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Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24F0213 - EPA 3546 (Fuels)							Soil					
Blank (24F0213-BLK1)		Prepared: 06/06/24 14:17   Analyzed: 06/06/24 19:14										
NWTPH-HCID												
Gasoline Range Organics	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Diesel Range Organics	ND	---	50.0	mg/kg wet	1	---	---	---	---	---	---	
Oil Range Organics	ND	---	100	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 111 %		Limits: 50-150 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		111 %		50-150 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Batch 24F0240 - EPA 3546 (Fuels)						Soil					
Blank (24F0240-BLK1)		Prepared: 06/07/24 10:15   Analyzed: 06/07/24 21:38									
NWTPH-HCID											
Gasoline Range Organics	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---
Diesel Range Organics	ND	---	50.0	mg/kg wet	1	---	---	---	---	---	---
Oil Range Organics	ND	---	100	mg/kg wet	1	---	---	---	---	---	---
Surr: o-Terphenyl (Surr)			Recovery:	92 %	Limits:	50-150 %		Dilution: 1x			
4-Bromofluorobenzene (Surr)				91 %		50-150 %		"			

Duplicate (24F0240-DUP1)				Prepared: 06/07/24 10:15   Analyzed: 06/08/24 04:42							
<u>QC Source Sample: IDC01-14-DS-2' (A4F0906-01)</u>											
<u>NWTPH-HCID</u>											
Gasoline Range Organics	ND	---	22.9	mg/kg dry	1	---	ND	---	---	---	30%
Diesel Range Organics	ND	---	57.3	mg/kg dry	1	---	ND	---	---	---	30%
Oil Range Organics	ND	---	115	mg/kg dry	1	---	ND	---	---	---	30%
Surr: o-Terphenyl (Surr)		Recovery: 92 %		Limits: 50-150 %		Dilution: 1x					
4-Bromofluorobenzene (Surr)		87 %		50-150 %		"					

Duplicate (24F0240-DUP2)			Prepared: 06/07/24 10:15   Analyzed: 06/08/24 03:55								
<u>QC Source Sample: IDC01-6K-N-11' (A4F0906-17)</u>											
<u>NWTPH-HCID</u>											
Gasoline Range Organics	ND	---	27.8	mg/kg dry	1	---	ND	---	---	---	30%
Diesel Range Organics	ND	---	69.4	mg/kg dry	1	---	ND	---	---	---	30%
Oil Range Organics	ND	---	139	mg/kg dry	1	---	ND	---	---	---	30%

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**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**

Project Number: IDC01DEC.24UC

Project Manager: Steve Omo

**Report ID:**

A4F0906 - 07 03 24 0935

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24F0240 - EPA 3546 (Fuels)							Soil					
Duplicate (24F0240-DUP2)		Prepared: 06/07/24 10:15   Analyzed: 06/08/24 03:55										
QC Source Sample: IDC01-6K-N-11' (A4F0906-17)												
Surr: o-Terphenyl (Surr)		Recovery: 102 %		Limits: 50-150 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		86 %		50-150 %		"						

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Project Number: IDC01DEC.24UC

Project Manager: Steve Omo

**Report ID:**

A4F0906 - 07 03 24 0935

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24F0171 - EPA 3546 (Fuels)						Soil						
Blank (24F0171-BLK1)		Prepared: 06/06/24 05:05    Analyzed: 06/06/24 08:19										
NWTPH-Dx												
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
Mineral Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 102 %		Limits: 50-150 %		Dilution: 1x						
LCS (24F0171-BS1)		Prepared: 06/06/24 05:05    Analyzed: 06/06/24 08:41										
NWTPH-Dx												
Diesel	120	---	20.0	mg/kg wet	1	125	---	96	38 - 132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 107 %		Limits: 50-150 %		Dilution: 1x						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24F0567 - EPA 3546 (Fuels)						Soil						
Blank (24F0567-BLK1)		Prepared: 06/17/24 12:22   Analyzed: 06/17/24 18:21										
NWTPH-Dx												
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 103 %		Limits: 50-150 %		Dilution: 1x						
LCS (24F0567-BS1)		Prepared: 06/17/24 12:22   Analyzed: 06/17/24 18:41										
NWTPH-Dx												
Diesel	110	---	20.0	mg/kg wet	1	125	---	88	38 - 132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 102 %		Limits: 50-150 %		Dilution: 1x						
Duplicate (24F0567-DUP1)		Prepared: 06/17/24 12:22   Analyzed: 06/17/24 22:08										
QC Source Sample: IDC01-14-DN-2' (A4F0906-03)												
NWTPH-Dx												
Diesel	227	---	21.7	mg/kg dry	1	---	134	---	---	52	30%	F-11, Q-04
Oil	ND	---	43.4	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		Recovery: 91 %		Limits: 50-150 %		Dilution: 1x						

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## QUALITY CONTROL (QC) SAMPLE RESULTS

## Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24F0185 - EPA 5035A						Soil						
Blank (24F0185-BLK1)		Prepared: 06/06/24 09:00 Analyzed: 06/06/24 12:02										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	5.00	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 91 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		106 %		50-150 %		"						
LCS (24F0185-BS2)		Prepared: 06/06/24 09:00 Analyzed: 06/06/24 11:35										
NWTPH-Gx (MS)												
Gasoline Range Organics	23.1	---	5.00	mg/kg wet	50	25.0	---	92	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 91 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		105 %		50-150 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## BTEX Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 24F0185 - EPA 5035A</b>												
<b>Soil</b>												
<b>Blank (24F0185-BLK1)</b>												
Prepared: 06/06/24 09:00 Analyzed: 06/06/24 12:02												
<u>5035A/8260D</u>												
Benzene	ND	---	10.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
Xylenes, total	ND	---	75.0	ug/kg wet	50	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 103 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>102 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>100 % 79-120 % "</i>												
<b>LCS (24F0185-BS1)</b>												
Prepared: 06/06/24 09:00 Analyzed: 06/06/24 10:41												
<u>5035A/8260D</u>												
Benzene	1050	---	10.0	ug/kg wet	50	1000	---	105	80 - 120%	---	---	
Toluene	976	---	50.0	ug/kg wet	50	1000	---	98	80 - 120%	---	---	
Ethylbenzene	1010	---	25.0	ug/kg wet	50	1000	---	101	80 - 120%	---	---	
Xylenes, total	3010	---	75.0	ug/kg wet	50	3000	---	100	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 102 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>102 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>96 % 79-120 % "</i>												

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Darrell Auvil, Client Services Manager

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## ANALYTICAL REPORT

## AMENDED REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## BTEX Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 24F0834 - EPA 5035A</b>												
<b>Soil</b>												
<b>Blank (24F0834-BLK1)</b>												
Prepared: 06/25/24 09:00 Analyzed: 06/25/24 11:54												
<u>5035A/8260D</u>												
Benzene	ND	---	10.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
Xylenes, total	ND	---	75.0	ug/kg wet	50	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 102 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>96 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>99 % 79-120 % "</i>												
<b>LCS (24F0834-BS1)</b>												
Prepared: 06/25/24 09:00 Analyzed: 06/25/24 11:00												
<u>5035A/8260D</u>												
Benzene	1060	---	10.0	ug/kg wet	50	1000	---	106	80 - 120%	---	---	
Toluene	1040	---	50.0	ug/kg wet	50	1000	---	104	80 - 120%	---	---	
Ethylbenzene	1080	---	25.0	ug/kg wet	50	1000	---	108	80 - 120%	---	---	
Xylenes, total	3280	---	75.0	ug/kg wet	50	3000	---	109	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 100 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>101 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>99 % 79-120 % "</i>												

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24F0798 - EPA 3546						Soil						
Blank (24F0798-BLK1)		Prepared: 06/24/24 10:00   Analyzed: 06/24/24 15:01										
EPA 8270E SIM												
Acenaphthene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 78 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		76 %		54-127 %		"						

## LCS (24F0798-BS1)

Prepared: 06/24/24 10:00 Analyzed: 06/24/24 15:26

EPA 8270E SIM												
Acenaphthene	691	---	10.0	ug/kg wet	1	800	---	86	40 - 123%	---	---	
Acenaphthylene	633	---	10.0	ug/kg wet	1	800	---	79	32 - 132%	---	---	
Anthracene	669	---	10.0	ug/kg wet	1	800	---	84	47 - 123%	---	---	
Benz(a)anthracene	644	---	10.0	ug/kg wet	1	800	---	81	49 - 126%	---	---	
Benzo(a)pyrene	676	---	10.0	ug/kg wet	1	800	---	85	45 - 129%	---	---	
Benzo(b)fluoranthene	643	---	10.0	ug/kg wet	1	800	---	80	45 - 132%	---	---	
Benzo(k)fluoranthene	690	---	10.0	ug/kg wet	1	800	---	86	47 - 132%	---	---	
Benzo(g,h,i)perylene	606	---	10.0	ug/kg wet	1	800	---	76	43 - 134%	---	---	
Chrysene	701	---	10.0	ug/kg wet	1	800	---	88	50 - 124%	---	---	
Dibenz(a,h)anthracene	711	---	10.0	ug/kg wet	1	800	---	89	45 - 134%	---	---	
Fluoranthene	731	---	10.0	ug/kg wet	1	800	---	91	50 - 127%	---	---	
Fluorene	657	---	10.0	ug/kg wet	1	800	---	82	43 - 125%	---	---	

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25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24F0798 - EPA 3546						Soil						
LCS (24F0798-BS1)		Prepared: 06/24/24 10:00		Analyzed: 06/24/24 15:26								
Indeno(1,2,3-cd)pyrene	670	---	10.0	ug/kg wet	1	800	---	84	45 - 133%	---	---	
Naphthalene	671	---	10.0	ug/kg wet	1	800	---	84	35 - 123%	---	---	
Phenanthrene	666	---	10.0	ug/kg wet	1	800	---	83	50 - 121%	---	---	
Pyrene	734	---	10.0	ug/kg wet	1	800	---	92	47 - 127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 80 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		75 %		54-127 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project Number: IDC01DEC.24UC

Project Manager: Steve Omo

**Report ID:****A4F0906 - 07 03 24 0935**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24F0184 - Total Solids (Dry Weight) - 2022							Soil					
Duplicate (24F0184-DUP8)		Prepared: 06/06/24 19:25   Analyzed: 06/07/24 06:51										
QC Source Sample: IDC01-COMP1 (A4F0906-18)												
EPA 8000D												
% Solids	89.0	---	1.00	%	1	---	90.8	---	---	2	10%	

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## QUALITY CONTROL (QC) SAMPLE RESULTS

## Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24F0232 - Total Solids (Dry Weight) - 2022							Soil					
Duplicate (24F0232-DUP1)		Prepared: 06/07/24 08:23			Analyzed: 06/10/24 06:52							
QC Source Sample: IDC01-I4-DS-2' (A4F0906-01)												
EPA 8000D												
% Solids	78.0	---	1.00	%	1	---	80.7	---	---	3	10%	
Duplicate (24F0232-DUP2)		Prepared: 06/07/24 08:23			Analyzed: 06/10/24 06:52							
QC Source Sample: IDC01-I4-DM-2' (A4F0906-02)												
EPA 8000D												
% Solids	84.6	---	1.00	%	1	---	84.4	---	---	0.2	10%	
Duplicate (24F0232-DUP3)		Prepared: 06/07/24 08:23			Analyzed: 06/10/24 06:52							
QC Source Sample: IDC01-I4-DN-2' (A4F0906-03)												
EPA 8000D												
% Solids	78.0	---	1.00	%	1	---	79.0	---	---	1	10%	

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Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## SAMPLE PREPARATION INFORMATION

## Hydrocarbon Identification Screen by NWTPH-HCID

## Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24F0213</u>							
A4F0906-18	Soil	NWTPH-HCID	06/05/24 16:00	06/06/24 15:22	10.18g/10mL	10g/10mL	0.98
A4F0906-19	Soil	NWTPH-HCID	06/05/24 16:05	06/06/24 15:22	10.41g/10mL	10g/10mL	0.96
<u>Batch: 24F0240</u>							
A4F0906-01	Soil	NWTPH-HCID	06/04/24 08:00	06/07/24 10:15	10.06g/10mL	10g/10mL	0.99
A4F0906-02	Soil	NWTPH-HCID	06/04/24 08:15	06/07/24 10:15	10.72g/10mL	10g/10mL	0.93
A4F0906-03	Soil	NWTPH-HCID	06/04/24 08:25	06/07/24 10:15	10.24g/10mL	10g/10mL	0.98
A4F0906-04	Soil	NWTPH-HCID	06/04/24 09:35	06/07/24 10:15	10.3g/10mL	10g/10mL	0.97
A4F0906-05	Soil	NWTPH-HCID	06/04/24 09:30	06/07/24 10:15	10.02g/10mL	10g/10mL	1.00
A4F0906-06	Soil	NWTPH-HCID	06/04/24 10:55	06/07/24 10:15	10.8g/10mL	10g/10mL	0.93
A4F0906-07	Soil	NWTPH-HCID	06/04/24 08:40	06/07/24 10:15	10.69g/10mL	10g/10mL	0.94
A4F0906-08	Soil	NWTPH-HCID	06/04/24 11:25	06/07/24 10:15	10.73g/10mL	10g/10mL	0.93
A4F0906-09	Soil	NWTPH-HCID	06/04/24 11:30	06/07/24 10:15	10.15g/10mL	10g/10mL	0.99
A4F0906-10	Soil	NWTPH-HCID	06/04/24 11:15	06/07/24 10:15	10.51g/10mL	10g/10mL	0.95
A4F0906-11	Soil	NWTPH-HCID	06/04/24 11:10	06/07/24 10:15	10.96g/10mL	10g/10mL	0.91
A4F0906-12	Soil	NWTPH-HCID	06/04/24 17:00	06/07/24 10:15	10.47g/10mL	10g/10mL	0.96
A4F0906-13	Soil	NWTPH-HCID	06/04/24 17:15	06/07/24 10:15	10.87g/10mL	10g/10mL	0.92
A4F0906-14	Soil	NWTPH-HCID	06/05/24 15:40	06/07/24 10:15	10.34g/10mL	10g/10mL	0.97
A4F0906-15	Soil	NWTPH-HCID	06/05/24 15:30	06/07/24 10:15	10.4g/10mL	10g/10mL	0.96
A4F0906-16	Soil	NWTPH-HCID	06/05/24 17:00	06/07/24 10:15	10.54g/10mL	10g/10mL	0.95
A4F0906-17	Soil	NWTPH-HCID	06/05/24 17:10	06/07/24 10:15	10.59g/10mL	10g/10mL	0.94

## Diesel and/or Oil Hydrocarbons by NWTPH-Dx

## Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24F0171</u>							
A4F0906-18	Soil	NWTPH-Dx	06/05/24 16:00	06/06/24 17:43	11.21g/5mL	10g/5mL	0.89
A4F0906-19RE1	Soil	NWTPH-Dx	06/05/24 16:05	06/06/24 17:43	11.09g/5mL	10g/5mL	0.90
<u>Batch: 24F0567</u>							
A4F0906-03	Soil	NWTPH-Dx	06/04/24 08:25	06/17/24 12:43	11.02g/5mL	10g/5mL	0.91
A4F0906-04	Soil	NWTPH-Dx	06/04/24 09:35	06/17/24 12:43	11.02g/5mL	10g/5mL	0.91
A4F0906-09	Soil	NWTPH-Dx	06/04/24 11:30	06/17/24 12:43	11.18g/5mL	10g/5mL	0.89
A4F0906-10	Soil	NWTPH-Dx	06/04/24 11:15	06/17/24 12:43	11.02g/5mL	10g/5mL	0.91
A4F0906-13RE1	Soil	NWTPH-Dx	06/04/24 17:15	06/17/24 12:43	11.21g/5mL	10g/5mL	0.89

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Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## SAMPLE PREPARATION INFORMATION

## Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

**Prep: EPA 5035A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<b>Batch: 24F0185</b>							
A4F0906-18	Soil	NWTPH-Gx (MS)	06/05/24 16:00	06/06/24 10:44	5.31g/5mL	5g/5mL	0.94
A4F0906-19	Soil	NWTPH-Gx (MS)	06/05/24 16:05	06/06/24 10:44	5.54g/5mL	5g/5mL	0.90

## BTEX Compounds by EPA 8260D

**Prep: EPA 5035A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<b>Batch: 24F0185</b>							
A4F0906-18	Soil	5035A/8260D	06/05/24 16:00	06/06/24 10:44	5.31g/5mL	5g/5mL	0.94
A4F0906-19	Soil	5035A/8260D	06/05/24 16:05	06/06/24 10:44	5.54g/5mL	5g/5mL	0.90
<b>Batch: 24F0834</b>							
A4F0906-13	Soil	5035A/8260D	06/04/24 17:15	06/04/24 17:15	7.25g/5mL	5g/5mL	0.69

## Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

**Prep: EPA 3546**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<b>Batch: 24F0798</b>							
A4F0906-13	Soil	EPA 8270E SIM	06/04/24 17:15	06/24/24 10:00	11.46g/5mL	10g/5mL	0.87

## Percent Dry Weight

**Prep: Total Solids (Dry Weight) - 2022**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<b>Batch: 24F0184</b>							
A4F0906-18	Soil	EPA 8000D	06/05/24 16:00	06/06/24 19:25			NA
A4F0906-19	Soil	EPA 8000D	06/05/24 16:05	06/06/24 19:25			NA
<b>Batch: 24F0232</b>							
A4F0906-01	Soil	EPA 8000D	06/04/24 08:00	06/07/24 08:23			NA
A4F0906-02	Soil	EPA 8000D	06/04/24 08:15	06/07/24 08:23			NA
A4F0906-03	Soil	EPA 8000D	06/04/24 08:25	06/07/24 08:23			NA
A4F0906-04	Soil	EPA 8000D	06/04/24 09:35	06/07/24 08:23			NA
A4F0906-05	Soil	EPA 8000D	06/04/24 09:30	06/07/24 08:23			NA
A4F0906-06	Soil	EPA 8000D	06/04/24 10:55	06/07/24 08:23			NA
A4F0906-07	Soil	EPA 8000D	06/04/24 08:40	06/07/24 08:23			NA

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Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935****SAMPLE PREPARATION INFORMATION****Percent Dry Weight****Prep: Total Solids (Dry Weight) - 2022**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A4F0906-08	Soil	EPA 8000D	06/04/24 11:25	06/07/24 08:23			NA
A4F0906-09	Soil	EPA 8000D	06/04/24 11:30	06/07/24 08:23			NA
A4F0906-10	Soil	EPA 8000D	06/04/24 11:15	06/07/24 08:23			NA
A4F0906-11	Soil	EPA 8000D	06/04/24 11:10	06/07/24 08:23			NA
A4F0906-12	Soil	EPA 8000D	06/04/24 17:00	06/07/24 08:23			NA
A4F0906-13	Soil	EPA 8000D	06/04/24 17:15	06/07/24 08:23			NA
A4F0906-14	Soil	EPA 8000D	06/05/24 15:40	06/07/24 08:23			NA
A4F0906-15	Soil	EPA 8000D	06/05/24 15:30	06/07/24 08:23			NA
A4F0906-16	Soil	EPA 8000D	06/05/24 17:00	06/07/24 08:23			NA
A4F0906-17	Soil	EPA 8000D	06/05/24 17:10	06/07/24 08:23			NA

Apex Laboratories

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Darrell Auvil, Client Services Manager



## ANALYTICAL REPORT

### AMENDED REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**

Project Number: **IDC01DEC.24UC**

Project Manager: **Steve Omo**

**Report ID:**

**A4F0906 - 07 03 24 0935**

## QUALIFIER DEFINITIONS

### **Client Sample and Quality Control (QC) Sample Qualifier Definitions:**

**Apex Laboratories**

- F-11** The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
- F-26** Result for Diesel (Diesel Range Organics, C12-C18) is due to overlap from Gasoline or a Gasoline Range product.
- H-01** Analyzed outside the recommended holding time.
- H-02** This sample was extracted outside of the recommended holding time.
- M-04** Due to matrix interference, this analyte cannot be accurately quantified. The reported result may contain a high bias.
- Q-04** Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-39** Results for sample duplicate are higher than the sample results. See duplicate results in QC section of the report.
- Q-42** Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- V-15** Sample aliquot was subsampled from the sample container in the laboratory. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

Apex Laboratories

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Darrell Auvil, Client Services Manager

**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

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Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935****REPORTING NOTES AND CONVENTIONS:****Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported.

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

**Detection Limits: Limit of Detection (LOD)**

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

**Reporting Limits: Limit of Quantitation (LOQ)**

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

**Reporting Conventions:**

Basis: Results for soil samples are generally reported on a 100% dry weight basis.  
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")  
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

**QC Source:**

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

**Miscellaneous Notes:**

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" \*\*\* " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

**Blanks:**

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).  
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.

- For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
- For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

Apex Laboratories

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Darrell Auvil, Client Services Manager



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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935****REPORTING NOTES AND CONVENTIONS (Cont.):****Blanks (Cont.):**

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

**Preparation Notes:****Mixed Matrix Samples:****Water Samples:**

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

**Soil and Sediment Samples:**

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

**Sampling and Preservation Notes:**

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Darrell Auvil, Client Services Manager

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**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935****LABORATORY ACCREDITATION INFORMATION****ORELAP Certification ID: OR100062 (Primary Accreditation)****EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

**Apex Laboratories**

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
--------	----------	--------	---------	--------	---------------

All reported analytes are included in Apex Laboratories' current ORELAP scope.

**Secondary Accreditations**

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

**Subcontract Laboratory Accreditations**

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

**Field Testing Parameters**

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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Darrell Auvil, Client Services Manager



## ANALYTICAL REPORT

## AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

BB&amp;A Environmental - Wilsonville

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: R McLean Wilsonville

Project Number: IDC01DEC.24UC

Project Manager: Steve Omo

Report ID:

A4F0906 - 07 03 24 0935

APEX LABS		CHAIN OF CUSTODY		COC 1 OF 2	
12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333		Lab # <u>A4F0906</u>			
Company: BB&A Environmental	Project Mgr: Steve Omo	Project Name: R McLean Wilsonville	Project # IDC01DEC.24UC		
Address: 25195 SW Parkway Ave, #207, Wilsonville, OR 97070	Phone: 503-570-9484	Email: <u>smo@bbenv.com</u>			
Sampled by: Steve Omo					
Site Location: W/A OR	ANALYSIS REQUEST				
Other:					
SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS
IDC01 - I4 - DS-2'	6/4/2024	8:00	S	3	X
IDC01 - I4 - DM-2'	6/4/2024	8:15	S	3	X
IDC01 - I4 - DN-2'	6/4/2024	8:25	S	3	X
IDC01 - I3 - DN-3'	6/4/2024	9:35	S	3	X
IDC01 - I3 - DS-3'	6/4/2024	9:30	S	3	X
IDC01 I1 - DN - 2.5'	6/4/2024	10:55	S	3	X
IDC01 - E Elbow PL-2'	6/4/2024	8:40	S	3	X
IDC01 - PL-34M-2'	6/4/2024	11:25	S	3	X
IDC01 PL-34M-2'	6/4/2024	11:30	S	3	X
IDC01 - PL-2/3-3'	6/4/2024	11:15	S	3	X
IDC01 - PL-1/2-2.5'	6/4/2024	11:10	S	3	X
Normal Turn Around Time (TAT) = 7-10 Business Days					
SPECIAL INSTRUCTIONS:					
EMAIL DRAFT RESULTS					
TAT Requested (circle) 24 HR 48 HR 72 HR 4 DAY 5 DAY Other: _____					
SAMPLES ARE HELD FOR 30 DAYS					
RECEIVED BY: Signature: <u>[Signature]</u>	RECEIVED BY: Signature: <u>[Signature]</u>	RECEIVED BY: Signature: <u>[Signature]</u>	RECEIVED BY: Signature: <u>[Signature]</u>	RECEIVED BY: Signature: <u>[Signature]</u>	RECEIVED BY: Signature: <u>[Signature]</u>
Date: 6/6/2024	Date: 6/6/2024	Date: 6/6/2024	Date: 6/6/2024	Date: 6/6/2024	Date: 6/6/2024
Printed Name: <u>Randall Auvil</u>	Printed Name: <u>Randall Auvil</u>	Printed Name: <u>Randall Auvil</u>	Printed Name: <u>Randall Auvil</u>	Printed Name: <u>Randall Auvil</u>	Printed Name: <u>Randall Auvil</u>
Company: BB&A ENVIRONMENTAL	Company: BB&A ENVIRONMENTAL	Company: BB&A ENVIRONMENTAL	Company: BB&A ENVIRONMENTAL	Company: BB&A ENVIRONMENTAL	Company: BB&A ENVIRONMENTAL

Apex Laboratories

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Darrell Auvil, Client Services Manager



## ANALYTICAL REPORT

## AMENDED REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

BB&amp;A Environmental - Wilsonville

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: R McLean Wilsonville

Project Number: IDC01DEC.24UC

Project Manager: Steve Omo

Report ID:

A4F0906 - 07 03 24 0935

COC 2 OF 2

Lab # A4F0906

## CHAIN OF CUSTODY

## APEX LABS

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: BB&A Environmental	Project Mgr: Steve Omo	Project Name: R McLean Wilsonville	Project # IDC01DEC.24UC
Address: 25195 SW Parkway Ave #207 Wilsonville, OR 97070		Phone: 503-570-9484	Email: smono@bbenv.com
Sampled by: Steve Omo			
Site Location: W/A Other:	OR	ANALYSIS REQUEST	
SAMPLE ID	LAB ID #	DATE	TIME
IDC01 - E20K - M - 15'		6/4/2024	17:00
IDC01 - E20K - S - 13.5'		6/4/2024	17:15
IDC01 - 4K - N - 11'		6/5/2024	15:40
IDC01 - 4K - S - 11'		6/5/2024	15:30
IDC01 - 6K - S - 11'		6/5/2024	17:00
IDC01 - 6K - N - 11'		6/5/2024	17:10
IDC01 - CCMP1		6/5/2024	16:00
IDC01 - CCMP2		6/5/2024	16:05
MATRIX			
# OF CONTAINERS			
NWTPH-DC			
NWTPH-GX * BTEX			
BTEX + N			
8260 RBDM VOCs			
8260 Halo VOCs			
8260 VOCs			
8270 SIM PAHs			
8082 PCBs			
8081 Chlor, Pest			
RCRA Metals (8)			
Priority Metals (13)			
Al, Sb, As, Ba, Be, Cd			
Ca, Cr, Co, Cu, Fe, Pb			
Hg, Mg, Mn, Mo, Ni, K,			
Se, Ag, Na, Ti, V, Zn			
TCP Metals (8)			
1200-COLS			
1200-Z			
SPECIAL INSTRUCTIONS:			
EMAIL DRAFT RESULTS			
Normal Turn Around Time (TAT) = 7-10 Business Days			
2 - Samples 24 HR			
TAT Requested (circle)			
4 DAY 48 HR 72 HR			
5 DAY Other			
SAMPLES ARE HELD FOR 30 DAYS			
RELINQUISHED BY: Signature: <i>Randall Boase</i>	Date: 6/6/2024	RECEIVED BY: Signature: <i>Jeffery Webb</i>	Date:
Printed Name: <i>Randall Boase</i>	Time: 8:00 am	Printed Name: <i>Jeffery Webb</i>	Time:
Company: BB&A ENVIRONMENTAL		Company: Apex	

Apex Laboratories

Darrell Auvel, Client Services Manager

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## ANALYTICAL REPORT

## AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**

Project Number: IDC01DEC.24UC

Project Manager: Steve Omo

**Report ID:**

A4F0906 - 07 03 24 0935

**APEX LABS COOLER RECEIPT FORM**Client: BB&A Environmental Element WO#: A4 F0906Project/Project #: R. McLean Wilsonville IDC01DEC.24UC**Delivery Info:**Date/time received: 4/4/24 @ 800 By: JSDelivered by: Apex ☒ Client ☒ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐From USDA Regulated Origin? Yes ☐ No ☒**Cooler Inspection** Date/time inspected: 4/4/24 @ 803 By: JSChain of Custody included? Yes ☒ No ☐Signed/dated by client? Yes ☒ No ☐Contains USDA Reg. Soils? Yes ☒ No ☒ Unsure (email RegSoils) ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>3.1</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>gel</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) Possible reason why: OB 616Green dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐**Sample Inspection:** Date/time inspected: 6/4/24 @ 0825 By: KMSAll samples intact? Yes ☒ No ☐ Comments: OB 616Bottle labels/COCs agree? Yes ☐ No ☒ Comments: D on IDC01-4K-N-11 reads6/4/24 on all lots, LOC reads 6/5/24. D on IDC01-4K-S-11 2 1/2 Med. vials.COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: reads 6/4/24. 12-L vials 6/5/24Do VOA vials have visible headspace? Yes ☐ No ☒ NA ☒Comments: OB 616Water samples: pH checked: Yes ☐ No ☐ NA ☒ pH appropriate? Yes ☐ No ☐ NA ☒ pH ID: OB 616Comments: OB 616

Labeled by:

KMS

Witness:

KMS

Cooler Inspected by:

KMS

Form Y-003 R-02

Apex Laboratories

Darrell Auvil, Client Services Manager

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Wednesday, June 11, 2020

Slidv Omh

BB&i Euvfhumdula. - t f.nhuvf.d

351 95 St Paotway i vd, Sefld #321

t f.nhuvf.d, OR 91212

RE: i 0F2926 - R Mcpdau t f.nhuvf.d - IDC2I DEC60UC

MaT yhe khoenfur i gdApaxhælhædn b t d r æaly aggæcfald yheoxenfudnn aus nlfvd lh ghvfsd l4d  
4fr 4dnLqea.fly ndovfcdn lh l4d duvfhumdula. fusenlgyb

Euc.hnds æd l4d æne.ln hkaua.yndn khowhoT hædoi 0F2926, w4fc4 wan æcdfvds xy l4d .axhælhoy hu  
6/6/2020 aL 8:22:22i Mb

Ikyhe 4avd auy qednlhun chucdaufur l4fn æghd.hol4d ndovfcdn wd hkd, g.dand kdd. kdd lh chulæLmd xy  
dmæf. aL: [Di\\_evf@agdA.axnchm](mailto:Di_evf@agdA.axnchm), hoxy g4hud aL527-1l 8-3737b

P.dand uhld: i .. namg.dn wf.. xd sfngnhds hkwfl4fu 72 sayn hknæmg.d æcdfgl, eu.dnn gæhoææur dmduln  
4avd xddu masdb

Chh.doRdcdfgLiukhamalhu

i ccdglax.d RdcdfgLiukhamalhu æd fn .dnn l4au, hodqea. lh, 6 sdr C (uhLkhdzu), hoæcdfvds hu fcd l4d namd say an namg.fur b

(Sdd Chh.doRdcdfgLiukhamalhu khdslæf.n)

Ddkæe.LChh.do 7b sdr C

MaT Ffua. Rdghd.ln l4d hkdæ. vdænfu hkl4d sala æne.ln khol4fn namg.d nexmfnnhu, eu.dnn negdædsds xy  
a nexndqeduL. æxd.ds æmdusds æghdb

i .. hl4dosd.fvdæx.dn sddvds kdm l4fn sala, fuc.esfur E.dclhuvc Dala Dd.fvdæx.dn (EDDn), CpP-.fTd kdmn,  
c.fduLæqednlds nemmay n4ddln, aus a.. hl4doghsecln æd chunfsdæds ndchusay lh l4fn æghdb



AsTg LmæNæNf

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ANALYTICAL REPORT

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503-718-2323  
ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**  
25195 SW Parkway Ave, Suite #207  
Wilsonville, OR 97070

PN3In: **R McLean Wilsonville**  
PN3In, 4 rj pTN IDC01DEC.24UC  
PN3In, S MMTN Steve Omo

**Report ID:**  
A4F0906 - 06 11 24 1216

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
IDC01-COMP1	A4F0906-18	Soil	06/05/24 16:00	06/06/24 08:00
IDC01-COMP2	A4F0906-19	Soil	06/05/24 16:05	06/06/24 08:00

As Tg LMxMKNRt

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25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

PN3In: **R McLean Wilsonville**

PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MMTN Steve Omo

**Report ID:****A4F0906 - 06 11 24 1216**

## ANALYTICAL SAMPLE RESULTS

## Hydrocarbon Identification Screen by NWTPH-HCID

Ai MnT	CMJ sāl Rltr a	DT,Tn,ixi Llj l,	RTsxNli c Llj l,	d i l,t	Dlar,ixi	DMT Ai Mn Ty	S T,2xy Rlch	4 x,Tt
IDC01-COMP1 (A4F0906-18)			Matrix: Soil			Batch: 24F0213		
HMxai TRMcTONMInt	4 D	WW	1bHJ	j cz' c yhn	b	fUfU0 16:00	4 8 9Pk Wv ID	
DIrTaRMcTONMInt	4 D	WW	-0lb	j cz' c yhn	b	fUfU0 16:00	4 8 9Pk Wv ID	
OlaRMcTONMInt	DET	WW	bfG	j cz' c yhn	b	fUfU0 16:00	4 8 9Pk Wv ID	
Surrogate: o-Terphenyl (Surr)		Recovery: 89 %		Limits: 50-150 %	1	06/06/24 23:44	NWTPH-HCID	
4-Bromofluorobenzene (Surr)		89 %		50-150 %	1	06/06/24 23:44	NWTPH-HCID	
IDC01-COMP2 (A4F0906-19)			Matrix: Soil			Batch: 24F0213		
HMxai TRMcTONMInt	4 D	WW	1fH	j cz' c yhn	b	fUf7z10 ff:f-	4 8 9Pk Wv ID	
DIrTaRMcTONMInt	4 D	WW	-bf0	j cz' c yhn	b	fUf7z10 ff:f-	4 8 9Pk Wv ID	
OlaRMcTONMInt	4 D	WW	bf6	j cz' c yhn	b	fUf7z10 ff:f-	4 8 9Pk Wv ID	
Surrogate: o-Terphenyl (Surr)		Recovery: 95 %		Limits: 50-150 %	1	06/07/24 00:05	NWTPH-HCID	
4-Bromofluorobenzene (Surr)		95 %		50-150 %	1	06/07/24 00:05	NWTPH-HCID	

AsTg LMxNMNf

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PN3In: **R McLean Wilsonville**

PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MMTN Steve Omo

**Report ID:****A4F0906 - 06 11 24 1216**

## ANALYTICAL SAMPLE RESULTS

## Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Ai MnT	CMJ sāl RTra	DT,Tn,xi Llj l,	RTs xNli c Llj l,	d i l,t	Dlar ,xi	DMT Ai Mn Ty	S T,2xy RTch	4 x,Tt
IDC01-COMP1 (A4F0906-18)				Matrix: Soil		Batch: 24F0171		
DI/Ta	4 D	WW	b5HU	j cz/ c yhn	b	fUfUz10 1b:01	4 8 9Pk Wdg	
Oil	43.4	WW	65I6	j cz/ c yhn	b	fUfUz10 1b:01	4 8 9Pk Wdg	
Surrogate: o-Terphenyl (Surr)		Recovery: 89 %		Limits: 50-150 %	1	06/06/24 21:42	NWTPH-Dx	
IDC01-COMP2 (A4F0906-19RE1)				Matrix: Soil		Batch: 24F0171		
DI/Ta	4 D	WW	b5I6	j cz/ c yhn	b	fUf7z10 fG1-	4 8 9Pk Wdg	FWU
Ola	4 D	WW	6GHJ	j cz/ c yhn	b	fUf7z10 fG1-	4 8 9Pk Wdg	
Surrogate: o-Terphenyl (Surr)		Recovery: 96 %		Limits: 50-150 %	1	06/07/24 08:25	NWTPH-Dx	

AsTg LMxMKNRt

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DMNAr elav dTi, CInInft S MMTN

PMT0 xo1f



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

PN3In: **R McLean Wilsonville**

PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MMTN Steve Omo

**Report ID:****A4F0906 - 06 11 24 1216**

## ANALYTICAL SAMPLE RESULTS

## Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Ai MnT	CMJ s aT RTr a	DT, Tin, lxi Llj l,	RTs xNli c Llj l,	d i l, t	Dlar, lxi	DMT Ai Mn Ty	S T, 2xy RTh	4 x, Tt
<b>IDC01-COMP1 (A4F0906-18)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0185</b>		<b>V-15</b>
HMxai TRMctONMInt	4 D	WW	-H5	j cz' c yhn	-f	fUfU0 bUfU	4 8 9Pk Wg (S C)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 94 %	Limits: 50-150 %	1	06/06/24 16:06	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			107 %	50-150 %	1	06/06/24 16:06	NWTPH-Gx (MS)	
<b>IDC01-COMP2 (A4F0906-19)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0185</b>		<b>V-15</b>
Gasoline Range Organics	35.0	WW	-lb7	j cz' c yhn	-f	fUfU0 bU66	4 8 9Pk Wg (S C)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 96 %	Limits: 50-150 %	1	06/06/24 16:33	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			107 %	50-150 %	1	06/06/24 16:33	NWTPH-Gx (MS)	

As Tg LMxMKNRt

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DMNAr elav d'li, CInInT S MMTN

PMT- x01f



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Apex Laboratories, LLC

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ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**25195 SW Parkway Ave, Suite #207  
Wilsonville, OR 97070PN3In: **R McLean Wilsonville**

PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MMTN Steve Omo

**Report ID:****A4F0906 - 06 11 24 1216**

## ANALYTICAL SAMPLE RESULTS

## BTEX Compounds by EPA 8260D

Ai MnT	CMJ sāl RTr a	DT,Tn,ixi Llj l,	RTsxnli c Llj l,	d i l,t	Dlar ,ixi	DMT Ai Mn Ty	S T,2xy RTh	4 x,Tt
<b>IDC01-COMP1 (A4F0906-18)</b>		<b>Matrix: Soil</b>			<b>Batch: 24F0185</b>		<b>V-15</b>	
BTi . Ti T	4 D	WW	bbf0	r cz/ c yhn	-f	fUfU0 bUfU	-f6- AAGUFD	
9xa Ti T	4 D	WW	- U5	r cz/ c yhn	-f	fUfU0 bUfU	-f6- AAGUFD	
E,2napTi . Ti T	4 D	WW	1G0	r cz/ c yhn	-f	fUfU0 bUfU	-f6- AAGUFD	
Xnāli Rt u,x,M	4 D	WW	G- l6	r cz/ c yhn	-f	fUfU0 bUfU	-f6- AAGUFD	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %	1	06/06/24 16:06	5035A/8260D	
Toluene-d8 (Surr)		100 %		80-120 %	1	06/06/24 16:06	5035A/8260D	
4-Bromofluorobenzene (Surr)		101 %		79-120 %	1	06/06/24 16:06	5035A/8260D	
<b>IDC01-COMP2 (A4F0906-19)</b>		<b>Matrix: Soil</b>			<b>Batch: 24F0185</b>		<b>V-15</b>	
BTi . Ti T	4 D	WW	bf l6	r cz/ c yhn	-f	fUfU0 bU66	-f6- AAGUFD	
9xa Ti T	4 D	WW	- bf7	r cz/ c yhn	-f	fUfU0 bU66	-f6- AAGUFD	
Ethylbenzene	52.2	WW	1- l6	r cz/ c yhn	-f	fUfU0 bU66	-f6- AAGUFD	M-04
Xylenes, total	490	WW	77HU	r cz/ c yhn	-f	fUfU0 bU66	-f6- AAGUFD	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %	1	06/06/24 16:33	5035A/8260D	
Toluene-d8 (Surr)		101 %		80-120 %	1	06/06/24 16:33	5035A/8260D	
4-Bromofluorobenzene (Surr)		96 %		79-120 %	1	06/06/24 16:33	5035A/8260D	

As Tg LMxMKNR

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25195 SW Parkway Ave, Suite #207  
Wilsonville, OR 97070

PN3In: **R McLean Wilsonville**  
PN3In, 4 rj pTN IDC01DEC.24UC  
PN3In, S MMTN Steve Omo

**Report ID:**  
A4F0906 - 06 11 24 1216

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Ai MnT	CMj sāl RTr a	DT,Tn,lxi Llj l,	RTsxnli c Llj l,	d i l,t	Dlar ,lxi	DMT Ai Mn Ty	S T,2xy RTh	4 x,Tt
IDC01-COMP1 (A4F0906-18)				Matrix: Soil		Batch: 24F0184		
% Solids	90.8	WW	blff	%	b	fUf7zl0 fU- b	EPA GffD	
IDC01-COMP2 (A4F0906-19)				Matrix: Soil		Batch: 24F0184		
% Solids	93.5	WW	blff	%	b	fUf7zl0 fU- b	EPA GffD	

AsTg LMxMKNRt

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PN3In: **R McLean Wilsonville**

PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MMTN Steve Omo

**Report ID:****A4F0906 - 06 11 24 1216**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Hydrocarbon Identification Screen by NWTPH-HCID

Ai MnT	RTtra	DT,Tn,ixi Llj l,	RTsxNli c Llj l,	d i l,t	Dlar,ixi	CsI/ T Aj xri,	Cxr NIT RTtra	% REv	% REv Llj l,t	RPD	RPD Llj l,	4 x,Tt
Batch 24F0213 - EPA 3546 (Fuels)						Soil						
Blank (24F0213-BLK1)			PNs Mty: fUfUd0 b0:b7 Ai Mn Ty: fUfUd0 b5:b0									
NWTPH-HCID												
HMxd i TRMcTONMInt	4 D	WW	lfhf	j cz c wT, b		WW	WW	WW	WW	WW	WW	WW
DTTaRMcTONMInt	4 D	WW	-lfhf	j cz c wT, b		WW	WW	WW	WW	WW	WW	WW
OlaRMcTONMInt	4 D	WW	bff	j cz c wT, b		WW	WW	WW	WW	WW	WW	WW
Surr: o-Terphenyl (Surr)		Recovery: 111 %		Limits: 50-150 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		111 %		50-150 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

AsTg LMpxMKNRt

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DMNTa Ar elav dTi, CInInft S MMTN

PMTGxoIf



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503-718-2323

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25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

PN3In: **R McLean Wilsonville**

PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MMTN Steve Omo

**Report ID:****A4F0906 - 06 11 24 1216**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Ai MnT	RTra	DT, Tn, lxi Llj l,	RTsxnli c Llj l,	d i l, t	Dlar, lxi	CsI/ T Aj xri,	Cxr NiT RTra	% REv	% REv Llj l, t	RPD	RPD Llj l,	4 x, Tt
Batch 24F0171 - EPA 3546 (Fuels)						Soil						
Blank (24F0171-BLK1)		PNs Mty: fUfUz0 f- :f- Ai Mn Ty: fUfUz0 fGb5										
NWTPH-Dx												
DI Tt Ta	4 D	WW	1fHf	j cz' c wT,	b	WW	WW	WW	WW	WW	WW	
Ola	4 D	WW	0fHf	j cz' c wT,	b	WW	WW	WW	WW	WW	WW	
S li Tm Ola	4 D	WW	0fHf	j cz' c wT,	b	WW	WW	WW	WW	WW	WW	
Surr: o-Terphenyl (Surr)		Recovery: 102 % Limits: 50-150 % Dilution: 1x										
LCS (24F0171-BS1)		PNs Mty: fUfUz0 f- :f- Ai Mn Ty: fUfUz0 fGb5										
NWTPH-Dx												
DI Tt Ta	b1f	WW	1fHf	j cz' c wT,	b	b1-	WW	5U	6GW61%	WW	WW	
Surr: o-Terphenyl (Surr)		Recovery: 107 % Limits: 50-150 % Dilution: 1x										

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

As Tg LMxMKNRt

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PN3In: **R McLean Wilsonville**

PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MMTN Steve Omo

**Report ID:****A4F0906 - 06 11 24 1216**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Ai MnT	RTra	DT, Tn, lxi Llj l,	RTs xNli c Llj l,	d i l, t	Dlar, lxi	CsI/ T Aj xri ,	Cxr NiT RTra	% REv	% REv Llj l, t	RPD	RPD Llj l,	4 x, Tt
Batch 24F0185 - EPA 5035A						Soil						
Blank (24F0185-BLK1)		PNs Mty: fUfUd0 f5:ff Ai Mn Ty: fUfUd0 b1:f1										
NWTPH-Gx (MS)												
HMxdi TRMcTONMInt	4 D	WW	-Hff	j cz c wT,	-f	WW	WW	WW	WW	WW	WW	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 91 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		106 %		50-150 %		"						
LCS (24F0185-BS2)		PNs Mty: fUfUd0 f5:ff Ai Mn Ty: fUfUd0 bb:6-										
NWTPH-Gx (MS)												
HMxdi TRMcTONMInt	16lb	WW	-Hff	j cz c wT,	-f	1-Hf	WW	51	Gf Wb1f%	WW	WW	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 91 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		105 %		50-150 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

As Tg LMpxMKNRt

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## ANALYTICAL REPORT

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25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

PN3In: **R McLean Wilsonville**

PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MMTN Steve Omo

**Report ID:****A4F0906 - 06 11 24 1216**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## BTEX Compounds by EPA 8260D

Ai MnT	RTra	DT, Th, lxi Llj l,	RTs xNli c Llj l,	d i l, t	Dlar, lxi	CsI/ T Aj xri ,	Cxr NiT RTra	% REv	Llj l, t	RPD	RPD Llj l,	4 x, Tt
Batch 24F0185 - EPA 5035A						Soil						
Blank (24F0185-BLK1)		PNs Mty: fUfUz0 f5:ff Ai Mn Ty: fUfUz0 bl:f1										
5035A/8260D												
BTi . Ti T	4 D	WW	bfhf	rcz' c wT,	- f	WW	WW	WW	WW	WW	WW	WW
9xar' Ti T	4 D	WW	- fhf	rcz' c wT,	- f	WW	WW	WW	WW	WW	WW	WW
E, 2mpTi . Ti T	4 D	WW	1- hf	rcz' c wT,	- f	WW	WW	WW	WW	WW	WW	WW
Xnili Ttu, x, Nd	4 D	WW	7- hf	rcz' c wT,	- f	WW	WW	WW	WW	WW	WW	WW
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		79-120 %		"						
LCS (24F0185-BS1)		PNs Mty: fUfUz0 f5:ff Ai Mn Ty: fUfUz0 bf:0b										
5035A/8260D												
BTi . Ti T	bf- f	WW	bfhf	rcz' c wT,	- f	bfff	WW	bf-	Gf Wb1f%	WW	WW	WW
9xar' Ti T	57U	WW	- fhf	rcz' c wT,	- f	bfff	WW	5G	Gf Wb1f%	WW	WW	WW
E, 2mpTi . Ti T	bfbf	WW	1- hf	rcz' c wT,	- f	bfff	WW	bfb	Gf Wb1f%	WW	WW	WW
Xnili Ttu, x, Nd	6fbf	WW	7- hf	rcz' c wT,	- f	6fff	WW	bff	Gf Wb1f%	WW	WW	WW
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		79-120 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

As Tg LMPxMKNRt

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ANALYTICAL REPORT

Apex Laboratories, LLC

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25195 SW Parkway Ave, Suite #207  
Wilsonville, OR 97070

PN3In: **R McLean Wilsonville**  
PN3In, 4 rj pTN IDC01DEC.24UC  
PN3In, S MIMTN Steve Omo

**Report ID:**  
A4F0906 - 06 11 24 1216

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Ai MnT	DT,Tn,lxi	RTs xNli c	CsI/ T	Cxr NiT	% REv	RPD	4 x,Tt				
Rlra	Llj l,	Llj l,	d il,t	Dlar ,lxi	Aj xri ,	Rlra	% REv	Llj l,t	RPD	Llj l,	
Batch 24F0184 - Total Solids (Dry Weight) - 2022							Soil				
Duplicate (24F0184-DUP8)			PNsMty: fUdfUzlo b5:1- Ai Mn Ty: fUdf7zlo fU- b								
QC Source Sample: IDC01-COMP1 (A4F0906-18)											
EPA 8000D											
% Cxdt	89.0	WW	blf f	%	b	WW	5fIG	WW	WW	1	bf%

AsTg LMxNMNTr

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PN3In: **R McLean Wilsonville**

PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MMTN Steve Omo

**Report ID:****A4F0906 - 06 11 24 1216**

## SAMPLE PREPARATION INFORMATION

## Hysdcaoxhu Isduficalhu Scædu xy Nt WPH-HCID

**Podg: EPI 7506 (Fed.n)**

LM 4 rj pTN	S MNg	S T,2xy	CMJ salfy	PNsNNy	CMJ salf	DTæMa	RL PNs
Balc4: 30F23l 7					Ii l,IMæFli M	Ii l,IMæFli M	FM,xN
A0Ff5fUW6	Cxla	4 8 9Pk WvID	fUæf-zl0 bUff	fUæfUæ0 b-:11	bfbGææfj L	bfcæfj L	f15G
A0Ff5fUW5	Cxla	4 8 9Pk WvID	fUæf-zl0 bUf-	fUæfUæ0 b-:11	bfb0bcæfj L	bfcæfj L	f15U

## Dfdnd. aus/hoOf. Hysdcaoxhun xy Nt WPH-DA

**Podg: EPI 7506 (Fed.n)**

LM 4 rj pTN	S MNg	S T,2xy	CMJ salfy	PNsNNy	CMJ salf	DTæMa	RL PNs
Balc4: 30F21 1l					Ii l,IMæFli M	Ii l,IMæFli M	FM,xN
A0Ff5fUW6	Cxla	4 8 9Pk Wdg	fUæf-zl0 bUff	fUæfUæ0 b7:06	bblhbcæz-j L	bfcæz-j L	f15G
A0Ff5fUW5REb	Cxla	4 8 9Pk Wdg	fUæf-zl0 bUf-	fUæfUæ0 b7:06	bblf5cæz-j L	bfcæz-j L	f15f

## Ganh.fud Raur d Hysdcaoxhun (Bduzdud Læher 4 Nag4læa.dud) xy Nt WPH-GA

**Podg: EPI 5275i**

LM 4 rj pTN	S MNg	S T,2xy	CMJ salfy	PNsNNy	CMJ salf	DTæMa	RL PNs
Balc4: 30F2l 85					Ii l,IMæFli M	Ii l,IMæFli M	FM,xN
A0Ff5fUW6	Cxla	4 8 9Pk Wlg (S C)	fUæf-zl0 bUff	fUæfUæ0 bf:00	-l6bcæz-j L	-cæz-j L	f150
A0Ff5fUW5	Cxla	4 8 9Pk Wlg (S C)	fUæf-zl0 bUf-	fUæfUæ0 bf:00	-læ0cæz-j L	-cæz-j L	f15f

## BWEX Chmgheusn xy EPI 8362D

**Podg: EPI 5275i**

LM 4 rj pTN	S MNg	S T,2xy	CMJ salfy	PNsNNy	CMJ salf	DTæMa	RL PNs
Balc4: 30F2l 85					Ii l,IMæFli M	Ii l,IMæFli M	FM,xN
A0Ff5fUW6	Cxla	-f6-AæGluæD	fUæf-zl0 bUff	fUæfUæ0 bf:00	-l6bcæz-j L	-cæz-j L	f150
A0Ff5fUW5	Cxla	-f6-AæGluæD	fUæf-zl0 bUf-	fUæfUæ0 bf:00	-læ0cæz-j L	-cæz-j L	f15f

## PdæduLDoy t dfr 4L

**Podg: Væla. Sh.fsn (Doy t dfr 4L) - 3233**

LM 4 rj pTN	S MNg	S T,2xy	CMJ salfy	PNsNNy	CMJ salf	DTæMa	RL PNs
Balc4: 30F2l 80					Ii l,IMæFli M	Ii l,IMæFli M	FM,xN
A0Ff5fUW6	Cxla	EPA GffæD	fUæf-zl0 bUff	fUæfUæ0 b5:1-			4 A
A0Ff5fUW5	Cxla	EPA GffæD	fUæf-zl0 bUf-	fUæfUæ0 b5:1-			4 A

AsTg LMæxNMæNæfæ

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DMæNæAærelæv æTæ, CæNæInæfæ S MMTN

PMæTb6 æo1æ



ANALYTICAL REPORT

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PN3In, 4 rj pTN IDC01DEC.24UC  
PN3In, S MIMTN Steve Omo

**Report ID:**  
A4F0906 - 06 11 24 1216

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

**F-26** RTr a αNDITa(DITaRMcTONMIntuv b1WbG) It yrT,x xeTm αkj HMxdi TxNMHMxdi TRMcTsNyrn,h  
**M-04** Dr T,x j MNg li ,TnINi nTu,2lt MIMTnMi x, pTMinrMJanQ M,ldTyh92TNs xNly Ntr a j Mnxix,Mi M2lc2 plMh  
**V-15** CMj sālMqx, wM trptMj sālly αkj ,2TtMj sāltxi,Mi TNli ,2TayxNMknh92TtrptMj sālly Mqx, wM sNtTNly li ,2TayxNMknwl,2li  
0G2xrN xotMj sālch

AsTg LMxNMNTr

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207  
Wilsonville, OR 97070

PN3In: **R McLean Wilsonville**

PN3In, 4 rj pTN IDC01DEC.24UC  
PN3In, S MMTN Steve Omo

**Report ID:**

**A4F0906 - 06 11 24 1216**

### REPORTING NOTES AND CONVENTIONS:

**Abbreviations:**

DE9 Ai nTDE9Ev9ED MxNMxeT,2TyT,Th,ixi xNNsxnli c dj l,h  
4 D Ai nT4 O9 DE9Ev9ED MxNMxeT,2TyT,Th,ixi xNNsxnli c dj l,h  
4 R RTr a 4 x, RTsxNlyh  
RPD RTaMeTPINti, DloINi nTh RPDt αNS MNg CsI/ Tt Mly S MNg CsI/ TDr sanMlt MtpMly xi nxi nTi, Mxi ui x, NhxTnh

**Detection Limits: Limit of Detection (LOD)**

Llj l,t xoDT,Th,ixi (LODt) Mti xNj MmtT, MMeTaxoxi T2Mo,2TeMlyMly Llj l, xoqr Ml,l,Mxi (LOq)h  
loix eM Tlt dt,Ty ('WWWu,2Ti ,2TyNM2M i x, pTi TeM Mly pTaw ,2TRTsxnli c Llj l,h

**Reporting Limits: Limit of Quantitation (LOQ)**

VMlyMly Llj l,t xoqr Ml,l,Mxi (LOq) Mti xNly M,2TRTsxnli c Llj l,t αNMAMmtT w2TN,2TLOq uS RLupq L xNv RL Mti  
NQ Tt,Ty92TLOq NsNtTi,t MMeTAMxNMxeT,2Taw sxli, xo,2TnMlpMxi nrNtu,2M2M pTi eMlyMly Mnxlyli c ,x AsTg  
LpXNkNt' nxj sN2Ti tleTLOq sxanlt Mly sNnTy Nth

**Reporting Conventions:**

BMlt: RTrat αNxlattM salt Mti cTi TMMNsxnly xi Mbf% yhnwTlc2, pMlth  
92TRTra BMlt lt dt,Ty ααwli c ,2Tri l,t M "yNtu" wT,"uxN" " (pM/ ) yTlci Mxi h  
"yNt" CM saltNtrat Mly RTsxNli c Llj l,t Mti xNly xi MlyhnwTlc2, pMlth(lh"rcz' c yNt)  
CITPTNti, Cxayt tTh,ixi αNyT,Mt xoyhnwTlc2, MMTlth  
"wT" CM saltNtrat Mly RTsxNli c Llj l,t αN,2lt MmtT Mti xNj MlyhnwTlc2, nxNth,Tyupr, 2Mti x, pTi j xyldTy li ,2lt nMTh  
" " RTrat wl,2xr, 'wT,' xNyNtyTlci Mxi Mti x, i xNj MlyhnwTlc2, nxNth,Ty92TtNtrat Mti xNlyTny 'At RThleTy'h

**QC Source:**

li nMlt w2TN,2TNlt li tcnNti, tM saltshelyTy αNCM saltDrsanMlt MlyxNS MNg CsI/ TuMLM vxi ,NaCM saltDrsanMlt(LvC Drs)  
j MtpTMM Ty ,x yTj xi t,MtMnrMmMly sNhtlxi xo,2Ttg,Ml,ixi pMh2h

4 xi WdTi, BMh2 q v CM salt (DrsanMlt Mly S MNg CsI/ TDr sanMlt) Mti x, li naryTy li ,2lt NsxNhpAlMTNQ Tt, Mfra q v NsxNlo,2lt  
yNMt NQINtyh

**Miscellaneous Notes:**

" WW q v Ntrat Mti x, MsanMaltFxNtgM saltu% RTixeTNlt αNBAl/ t Mly Drs anMltu% RPD αNBAl/ tuBaM/ CsI/ Tt Mly S MNg CsI/ TtuT,nh

" \*\*\* d tTy ,x li ylnMT MxttlpalytnNs Mnmwl,2 ,2TCM saltMly CM saltDrsanMltNtrat w2Ti ,2T%RPD lt i x, MMTalt li ,2lt nMTu  
Ti,2TN,2TCM saltxN,2TCM saltDrsanMlt 2M MtsxnMaltNtra αN,2lt MMTuw2laT,2Tx,2TNlt 4 xi DT,Th, (4 D)h

**Blanks:**

C,MlyMly sNM,Intlt ,x TeM M,2TNtrat αNj BaM/ q v CM salt yxwi ,x MMeTATQM ,x xi T2Mo,xo,2TRTsxnli c Llj l, (RL)h  
BaM/ Ntrat αNcNdlj T,Nn MmtT Mti TeM Mly ,x ,2TRTsxnli c LTeTai x, ,x 2Mo,xo,2TRTsxnli c LTeTah  
WxNBAl/ 2lt αMti c pT,wTti ½ ,2TRL Mly ,2TRL (J αMty 2lt)u,2TmtxnlMly tM saltMly q v yMMwlanNtTleTMBW1' Q MdtTh  
WxNBAl/ 2lt MxeT,2TRLu,2TmtxnlMly tM saltMly q v yMMwlanNtTleTMB' Q MdtThis TNAs Tg LpXNkNt' BaM/ Pxannh

AsTg LpXNkNt'

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ANALYTICAL REPORT

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PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MMTN Steve Omo

**Report ID:**

**A4F0906 - 06 11 24 1216**

**REPORTING NOTES AND CONVENTIONS (Cont.):**

**Blanks (Cont.):**

CM salNtr at aMcTy wl, 2 MB' xNBWl' Q MdTNM'sx, Ti, IMplMty 2lc lo, 2TtM salNtr at Mf alt, 2M, Ti, lj T, 2TaleTaoxri y li  
, 2TpaM/ αNli xNM In M MntTuxNalt, 2M deT, lj T, 2TaleTaoxri y li, 2TpaM/ αNli xNM In M MntTth  
'B' My 'BWl' Q MdN Mxi t Mf xi amMs dTy, x tM salNtr at yT, Th, Ty MxeT, 2TRTs xNli c LTeTah

**Preparation Notes:**

S lgTy S MNg CM salt:

8 MINCM salt:

8 MINCM salt nxi, Mli c tlei ldnM, M xri, t xotTylj Ti, MtyTnM, Ty xNtTs MMTy sNxN, x Tg, M, lxi uMty xi am, 2TwMINSxNli M MntTyur  
ri alt x, 2TNwtTyINh, Ty pm, 2TndTi, h

CxlaMty CTylj Ti, CM salt:

CxlaMty CTylj Ti, tM salt nxi, Mli c tlei ldnM, M xri, t xowMINTyTnM, Ty sNxN, x Tg, M, lxi uMty xi am, 2Ttxdy sNxNli M MntTyur i alt  
x, 2TNwtTyINh, Ty pm, 2TndTi, h

**Sampling and Preservation Notes:**

v TNM Ncr aKkns NcNyl tutrn2 M 4 Mxi M Pxar, M, Dlt n2M tEaj li Mxi Cnt, Tj (4 PDEC) uNQ IN, 2M M, lel, lT trn2 M tM sal daMxi  
(αNlyttxaeTy j T, MuxN2xs2xts2Mfu2TgM Mli, n2Nj l rj uT, nh) Mly, T, li c xot2xN2xay M MntT (sk uDlttxaeTy OgnT uT, nh) pTs TNly Ty li  
, 2TdTy (xi M, T) wl, 2li M2xN, lj Twli yxwhli Myl, lxi utM salj MNg ts/ T M NQ INy αNtxj T M MntTuMty trdnli, exarj Tj rt, pT  
sNelyTyuMty playaf tl, Tts Thldn q v NQ T, Tyulo, 2lt It NQ INyh Aa Ncr aKkns Tj l, t2xray pT NclTwTy, x Ti trN, 2M, 2Tt NQ INj Ti, t M  
pTli c j T, h

DM M tTN t2xray pT M Mnt xow2ln2 Ncr aMxi t sTNM, x, 2TtM salt, 2Tmtrpj l, αN, T, li chloN Mty tM sal nxaIn, lxi M, lel, lT M i x,  
MsNcTy αNls Mlnr aN Ncr aKkns NcNyl uNtr at t2xray pT nxi tlyTNy Ti, lj MlthAs Tg L MpxNkNt wlaQ M cm, 2Tt M MntT Mnxlyli c, x, 2T  
j xt, t, Ni cTi, NQ INj Ti, tu2xwTeTNtr at αNtM salt, 2M Mnt αNxi xi Ncr aKkns rNxtTj j MhpT MntTs, Mpalh

CM salt, 2M2MTPTi daTNy Mly sNtTNy MAs Tg L MpxNkNt sTNdTi, NQ T, Mf at, Ty li, 2TsNs M Mxi tTh, lxi xo, 2TNs xNwl, 2, 2TyMf  
Mly, lj TxodaMxi dt, Tyh

As Tg L MpxNkNt j M, M t yT, Mly NhxNt xi tM sal NtThs, uli naryli c naTi, aytacTNdnMxi unxxaIN Tj sTNM NutM sal sNtTN Mxi u2xay  
, lj Tnxj sMntMly dTy daMxi hDMMT Q MdTy M i ThTt MhuMly, 2T aM/ xoQ MdN Mxi li ylnMlt nxj sMntTwl, 2 NQ INy sM M T, Tnh

As Tg L MpxNkNt

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ANALYTICAL REPORT

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25195 SW Parkway Ave, Suite #207  
Wilsonville, OR 97070

PN3In: **R McLean Wilsonville**  
PN3In, 4 rj pTN **IDC01DEC.24UC**  
PN3In, S MMTN **Steve Omo**

**Report ID:**  
**A4F0906 - 06 11 24 1216**

LABORATORY ACCREDITATION INFORMATION

**ORELAP Certification ID: OR100062 (Primary Accreditation)**

**EPA ID: OR01039**

Aaj T,2xyt Mly MMTN NsxNTy xj wxN sTNj Ty MAsTg LpxNkNt Mli naryTy xi AsTg LpxNkNt' ORELAP  
CnxsTxov TndnMxi uwl,2,2T TgnTs,ixi xoMmMTN(t) dt, Ty pTaw:

**Apex Laboratories**

S MNg	Ai Mnt	94 I_ID	Ai Mnt	94 I_ID	AnnNyl,Mxi
AaNsxNTy MMTN Mli naryTy li AsTg LpxNkNt' nrNTi, ORELAP tnxTh					

**Secondary Accreditations**

AsTg LpxNkNt Mxj Mi,Mit NnlsNnMNTyl,Mxi wl,2ixi W4It,Mit (8 M2li c,xi DOE)uMwTAM  
x,2Tnt,Mtts Tndn MNTyl,Mxi tix, dt, Ty 2Tnh

**Subcontract Laboratory Accreditations**

Crpxi ,M,Ty yMMNT xr,tlyTxoAsTg LpxNkNt' CnxsTxoAnnNyl,Mxi h  
PaMTtTT,2T Crpxi ,M, LpxNkNtNsxN xNcr ayT,MtuxNxi ,M, nkrNP3In, S MMTN xNj xN'li xNj Mxi h

**Field Testing Parameters**

Rttrat xNFTay 9Tt,Ty yMMNTskeyTy pm,2TnaTi, xNtNj salNiMly xaxr,tlyTxoAsTg LpxNkNt' CnxsTxo  
AnnNyl,Mxi h

AsTg LpxNkNt

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Wilsonville, OR 97070

PN3In: R McLean Wilsonville

PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MIMTN Steve Omo

Report ID:

A4F0906 - 06 11 24 1216

APEX LABS		CHAIN OF CUSTODY		COC 1 OF 2	
12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333		Lab # <u>A4F0906</u>			
Company: BB&A Environmental	Project Mgr: Steve Omo	Project Name: R McLean Wilsonville	Project # IDC01DEC.24UC		
Address: 25195 SW Parkway Ave, #207, Wilsonville, OR 97070	Phone: 503-570-9484	Email: <u>smo@bb&amp;aenv.com</u>			
ANALYSIS REQUEST					
Site Location: W/A	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST
Other:					
SAMPLE ID	LAB ID #				
IDC01 - 14 - DS-2'	6/4/2024	8:00	S	3	
IDC01 - 14 - DM-2'	6/4/2024	8:15	S	3	
IDC01 - 14 - DN-2'	6/4/2024	8:25	S	3	
IDC01 - 13 - DN-3'	6/4/2024	9:35	S	3	
IDC01 - 13 - DS-3'	6/4/2024	9:30	S	3	
IDC01 11 - DN - 2.5'	6/4/2024	10:55	S	3	
IDC01 - E Elbow PL-2'	6/4/2024	8:40	S	3	
IDC01 - PL-34M-2'	6/4/2024	11:25	S	3	
IDC01 PL-34M-2'	6/4/2024	11:30	S	3	
IDC01 - PL-2/3-3'	6/4/2024	11:15	S	3	
IDC01 - PL-1/2-2.5'	6/4/2024	11:10	S	3	
SPECIAL INSTRUCTIONS:					
EMAIL DRAFT RESULTS					
Normal Turn Around Time (TAT) = 7-10 Business Days					
TAT Requested (circle) 24 HR 48 HR 72 HR 4 DAY 5 DAY Other: _____					
SAMPLES ARE HELD FOR 30 DAYS					
RECEIVED BY: Signature: <u>[Signature]</u>	DATE: 6/6/2024	TIME: 11:15	PRINTED NAME: <u>Randall O'Brien</u>	COMPANY: BB&A ENVIRONMENTAL	
RECEIVED BY: Signature: <u>[Signature]</u>	DATE: 6/6/2024	TIME: 11:15	PRINTED NAME: <u>Randall O'Brien</u>	COMPANY: BB&A ENVIRONMENTAL	

As Tg LmPxM&amp;NTr

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## ANALYTICAL REPORT

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PN3In: **R McLean Wilsonville**

PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MMTN Steve Omo

**Report ID:**

A4F0906 - 06 11 24 1216

**APEX LABS COOLER RECEIPT FORM**Client: BB&A Environmental Element WO#: A4 F0906Project/Project #: R. McLean Wilsonville IDC01DEC.24UC**Delivery Info:**Date/time received: 4/4/24 @ 800 By: JSDelivered by: Apex ☒ Client ☒ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐From USDA Regulated Origin? Yes ☐ No ☒**Cooler Inspection** Date/time inspected: 4/4/24 @ 803 By: JSChain of Custody included? Yes ☒ No ☐Signed/dated by client? Yes ☒ No ☐Contains USDA Reg. Soils? Yes ☒ No ☒ Unsure (email RegSoils) ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>3.1</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>y</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>gel</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) Possible reason why: ☐Green dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐**Sample Inspection:** Date/time inspected: 4/4/24 @ 0825 By: kmAll samples intact? Yes ☒ No ☐ Comments: OB 616Bottle labels/COCs agree? Yes ☐ No ☒ Comments: D on IDC01-4K-N-11 reads6/4/24 on all lots, LOC reads 6/5/24. D on IDC01-4K-S-11 2/2 Med. vials.COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: reads 6/4/24. 12-L vials 6/5/24Do VOA vials have visible headspace? Yes ☐ No ☒ NA ☒Comments: OB 616Water samples: pH checked: Yes ☐ No ☒ NA ☒ pH appropriate? Yes ☐ No ☒ NA ☒ pH ID: ☐Comments: ☐

Labeled by:

KRS

Witness:

KRS

Cooler Inspected by:

KRS

Form Y-003 R-02

AsTg LMPxN&amp;Nf

Donald Wilsonville

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DMNAr elav dTi, CInInIt S MMTN

PMTIf x01f

---

# ATTACHMENT C

Direct Push Probe Logs

---

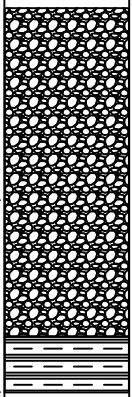



# PROBE LOG

PAGE 1 OF 1

PROBE NO.: DP-1  
 PROJECT CODE: IDC01DEC.24UC  
 CADD FILE: IDC01-L.DWG  
 PROJECT: INTERSTATE DISTRIBUTION CO.,  
 LOCATION: 10110 RIDDLER ROAD  
WILSONVILLE, OREGON

TOTAL DEPTH: 10'  
 SURFACE ELEVATION: \_\_\_\_\_  
 PROBING METHOD: MACRO CORE  
 PROBED BY: BB&A ENVIRONMENTAL  
 LOGGED BY: STEPHEN OMO  
 DATE COMPLETED: 06/10/24

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	PID	H <sub>2</sub> O LEVEL	LITHOLOGIC DESCRIPTION	LITHOLOGY	DEPTH (feet)	PROBE ABANDONMENT
0	DP1-I2-DN-8.5'	0.0		- GRAVEL (GP): pea gravel		0	
		0.0					
		0.0					
		0.0					
		0.0					
5		0.0				5	
		0.0					
		0.0					
		0.0					
		0.0					
10		0.0		- Silty CLAY (CL): brown, with occasional gravel, slightly plastic, firm, no petroleum odor or staining		10	
15						15	
20						20	
25						25	

## LEGEND

BLS Below Land Surface

NOTES: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

NOTE: CLASSIFICATION OF SOILS BASED ON THE UNITED SOILS CLASSIFICATION SYSTEM.



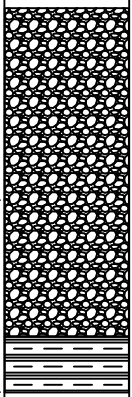

**EUGENE OFFICE**  
 32986 Roberts Court Coburg, Oregon 97408  
 ph. 541.484.9484 fax. 541.484.4188  
**PORTLAND OFFICE**  
 25195 SW Parkway Ave., Suite 207  
 Wilsonville, Oregon 97070  
 ph. 503.570.9484 fax. 503.570.0384

# PROBE LOG

PAGE 1 OF 1

PROBE NO.: DP-2  
 PROJECT CODE: IDC01DEC.24UC  
 CADD FILE: IDC01-L.DWG  
 PROJECT: INTERSTATE DISTRIBUTION CO.,  
 LOCATION: 10110 RIDDLER ROAD  
WILSONVILLE, OREGON

TOTAL DEPTH: 10'  
 SURFACE ELEVATION: \_\_\_\_\_  
 PROBING METHOD: MACRO CORE  
 PROBED BY: BB&A ENVIRONMENTAL  
 LOGGED BY: STEPHEN OMO  
 DATE COMPLETED: 06/10/24

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	PID	H <sub>2</sub> O LEVEL	LITHOLOGIC DESCRIPTION	LITHOLOGY	DEPTH (feet)	PROBE ABANDONMENT
0	DP2-I2-DS-8.5'	0.0		- GRAVEL (GP): pea gravel		0	
		0.0					
		0.0					
		0.0					
		0.0					
5		0.0				5	
		0.0					
		0.0					
		0.0					
		0.0					
10		0.0		- Silty CLAY (CL): brown, with occasional gravel, slightly plastic, firm, no petroleum odor or staining		10	
15						15	
20						20	
25						25	

## LEGEND

BLS Below Land Surface

NOTES: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

NOTE: CLASSIFICATION OF SOILS BASED ON THE UNITED SOILS CLASSIFICATION SYSTEM.



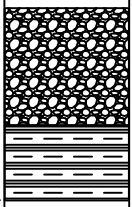
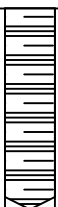
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**PORTLAND OFFICE**  
 25195 SW Parkway Ave., Suite 207  
 Wilsonville, Oregon 97070  
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# PROBE LOG

PAGE 1 OF 1

PROBE NO.: DP-3  
 PROJECT CODE: IDC01DEC.24UC  
 CADD FILE: IDC01-L.DWG  
 PROJECT: INTERSTATE DISTRIBUTION CO.,  
 LOCATION: 10110 RIDDLER ROAD  
WILSONVILLE, OREGON

TOTAL DEPTH: 5'  
 SURFACE ELEVATION: \_\_\_\_\_  
 PROBING METHOD: MACRO CORE  
 PROBED BY: BB&A ENVIRONMENTAL  
 LOGGED BY: STEPHEN OMO  
 DATE COMPLETED: 06/10/24

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	PID	H <sub>2</sub> O LEVEL	LITHOLOGIC DESCRIPTION	LITHOLOGY	DEPTH (feet)	PROBE ABANDONMENT
0	DP3-PL Trench-3'	0.0		- GRAVEL (GP): pea gravel		0	
		0.0					
		0.0					
		0.0		- Silty CLAY (CL): brown, slightly plastic, firm, no petroleum odor or staining			
		0.0					
5		0.0				5	
10						10	
15						15	
20						20	
25						25	

## LEGEND

BLS Below Land Surface

NOTES: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

NOTE: CLASSIFICATION OF SOILS BASED ON THE UNITED SOILS CLASSIFICATION SYSTEM.



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 ph. 503.570.9484 fax. 503.570.0384

# PROBE LOG

PAGE 1 OF 1

PROBE NO.: DP-4  
 PROJECT CODE: IDC01DEC.24UC  
 CADD FILE: IDC01-L.DWG  
 PROJECT: INTERSTATE DISTRIBUTION CO.,  
 LOCATION: 10110 RIDDLER ROAD  
 WILSONVILLE, OREGON

TOTAL DEPTH: 18'  
 SURFACE ELEVATION:  
 PROBING METHOD: MACRO CORE  
 PROBED BY: BB&A ENVIRONMENTAL  
 LOGGED BY: STEPHEN OMO  
 DATE COMPLETED: 06/10/24

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	PID	H <sub>2</sub> O LEVEL	LITHOLOGIC DESCRIPTION	LITHOLOGY	DEPTH (feet)	PROBE ABANDONMENT
0		0.0		- GRAVEL (GM): fill, 3/4"-, silty		0	
		0.0					
		0.0					
		0.0					
		0.0		- GRAVEL (GP): pea gravel			
5		0.0				5	
		0.0					
		0.0					
		0.0					
		0.0					
10		0.0				10	
		0.0					
		0.0					
		0.0					
	DP4-E20K-N-13.5'-14'	0.0		- CLAY (CL) brown & gray, silty, slightly plastic, firm, occasional gravel, no petroleum odor or staining, no groundwater		15	
15		0.0				15	
		0.0					
		0.0					
		0.0					
20						20	
25						25	

## LEGEND

BLS Below Land Surface

NOTES:

NOTE: CLASSIFICATION OF SOILS BASED ON THE UNITED SOILS CLASSIFICATION SYSTEM.



**EUGENE OFFICE**  
 32986 Roberts Court Coburg, Oregon 97408  
 ph. 541.484.9484 fax. 541.484.4188  
**PORTLAND OFFICE**  
 25195 SW Parkway Ave., Suite 207  
 Wilsonville, Oregon 97070  
 ph. 503.570.9484 fax. 503.570.0384

# PROBE LOG

PAGE 1 OF 1

PROBE NO.: DP-5  
 PROJECT CODE: IDC01DEC.24UC  
 CADD FILE: IDC01-L.DWG  
 PROJECT: INTERSTATE DISTRIBUTION CO.,  
 LOCATION: 10110 RIDDLER ROAD  
 WILSONVILLE, OREGON

TOTAL DEPTH: 18'  
 SURFACE ELEVATION:  
 PROBING METHOD: MACRO CORE  
 PROBED BY: BB&A ENVIRONMENTAL  
 LOGGED BY: STEPHEN OMO  
 DATE COMPLETED: 06/10/24

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	PID	H <sub>2</sub> O LEVEL	LITHOLOGIC DESCRIPTION	LITHOLOGY	DEPTH (feet)	PROBE ABANDONMENT
0		0.0		- GRAVEL (GM): fill, 3/4"-, silty		0	
		0.0					
		0.0					
		0.0					
		0.0		- GRAVEL (GP): pea gravel			
5		0.0				5	
		0.0					
		0.0					
		0.0					
10		0.0				10	
		0.0					
		0.0					
		0.0					
		0.0					
	DP5-W20K-N-13.5'-14'	0.2		- CLAY (CL) brown & gray, silty, slightly plastic, firm, occasional gravel, no petroleum odor or staining, no groundwater		15	
15		0.0				15	
		0.0					
		0.0					
		0.0					
20						20	
25						25	

## LEGEND

BLS Below Land Surface

NOTES:

NOTE: CLASSIFICATION OF SOILS BASED ON THE UNITED SOILS CLASSIFICATION SYSTEM.





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PAGE 1 OF 1

PROBE NO.: DP-6  
PROJECT CODE: IDC01DEC.24UC  
CADD FILE: IDC01-L.DWG  
PROJECT: INTERSTATE DISTRIBUTION CO.,  
LOCATION: 10110 RIDDLE ROAD  
WILSONVILLE, OREGON

TOTAL DEPTH: 18'  
SURFACE ELEVATION: \_\_\_\_\_  
PROBING METHOD: MACRO CORE  
PROBED BY: BB&A ENVIRONMENTAL  
LOGGED BY: STEPHEN OMO  
DATE COMPLETED: 06/10/24

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	PID	H <sub>2</sub> O LEVEL	LITHOLOGIC DESCRIPTION	LITHOLOGY	DEPTH (feet)	PROBE ABANDONMENT
0	DP6-W20K-M-13.5'-14'	0.0		- GRAVEL (GM): fill, 3/4"-, silty		0	
		0.0					
		0.0					
		0.0					
		0.0		- GRAVEL (GP): pea gravel			
5		0.0				5	
		0.0					
		0.0					
		0.0					
		0.0					
10		0.0				10	
		0.0					
		0.0					
		0.0					
		0.0					
		0.2		- CLAY (CL) brown & gray, silty, slightly plastic, firm, occasional gravel, no petroleum odor or staining, no groundwater			
15		0.0				15	
		0.0					
		0.0					
		0.0					
20						20	
25						25	

### LEGEND

BLS      Below Land Surface

NOTES: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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NOTE: CLASSIFICATION OF SOILS BASED ON THE UNITED SOILS CLASSIFICATION SYSTEM.

# PROBE LOG

PAGE 1 OF 1

PROBE NO.: DP-7  
 PROJECT CODE: IDC01DEC.24UC  
 CADD FILE: IDC01-L.DWG  
 PROJECT: INTERSTATE DISTRIBUTION CO.,  
 LOCATION: 10110 RIDDLER ROAD  
WILSONVILLE, OREGON

TOTAL DEPTH: 20'  
 SURFACE ELEVATION: \_\_\_\_\_  
 PROBING METHOD: MACRO CORE  
 PROBED BY: BB&A ENVIRONMENTAL  
 LOGGED BY: STEPHEN OMO  
 DATE COMPLETED: 06/10/24

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	PID	H <sub>2</sub> O LEVEL	LITHOLOGIC DESCRIPTION	LITHOLOGY	DEPTH (feet)	PROBE ABANDONMENT
0		0.0		- GRAVEL (GM): fill, 3/4"-, silty		0	
		0.0					
		0.0					
		0.0					
		0.0		- GRAVEL (GP): pea gravel			
5		0.0				5	
		0.0					
		0.0					
		0.0					
		0.0					
10		0.0				10	
		0.0					
		0.0					
		0.0					
		0.0					
	DP7-W20K-S-13.5'-14'	4.7		- CLAY (CL) gray, grades into brown, slightly plastic, firm, occasional gravel, slight fuel odor @ 13.5' BLS, no odor or staining below 14', no groundwater		15	
15		0.0					
		0.0					
		0.0					
		0.0					
		0.0					
20		0.0				20	
25						25	

## LEGEND

BLS Below Land Surface

NOTES: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

NOTE: CLASSIFICATION OF SOILS BASED ON THE UNITED SOILS CLASSIFICATION SYSTEM.



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---

# ATTACHMENT D

Soil and Fuel/Rinse Water Disposal Receipts

---





Hillsboro Landfill, Inc  
3205 SE Minter Bridge  
Hillsboro, OR, 97123  
Ph: (503)-640-9427

Reprint  
Ticket# 1721862

Customer Name BB AND A ENVIRONMENTAL BB&A E Carrier BB AND A  
Ticket Date 06/19/2024 Vehicle# JUSTIN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0005113  
State Waste Code Gen EPA ID 7506  
Manifest NA  
Destination Grid  
PO  
Profile 1428770R (DIESEL FUEL/FUEL OIL CONTAMINATED SOIL )  
Generator RIDDER ROAD-10110 RIDDER ROAD LLC 10110 SW RIDDER RD WILSONVILLE

	Time	Scale	Operator	Inbound	Gross	
In	06/19/2024 11:07:16	Inbound 1	KSURRATT		Tare	22620 lb
Out	06/19/2024 11:32:44	Outbound	LGILLILA		Net	13100 lb
					Tons	9520 lb
						4.76

Comments

Consumer Comments? We want to know. Please call.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC- 100		4.76	Tons				CLACK-OUT
2 EVC-Energy/Adminis 100			%				CLACK-OUT

\$356.38

Total Tax  
Total Ticket

Driver's Signature



Hillsboro Landfill, Inc  
3205 SE Minter Bridge  
Hillsboro, OR, 97123  
Ph: (503)-640-9427

Reprint  
Ticket# 1721907

Customer Name BB AND A ENVIRONMENTAL BB&A E Carrier BB AND A  
Ticket Date 06/19/2024 Vehicle# JUSTIN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0005113  
State Waste Code Gen EPA ID 7506  
Manifest NA  
Destination Grid  
PO  
Profile 1428770R (DIESEL FUEL/FUEL OIL CONTAMINATED SOIL )  
Generator RIDDER ROAD-10110 RIDDER ROAD LLC 10110 SW RIDDER RD WILSONVILLE

	Time	Scale	Operator	Inbound	Gross	
In	06/19/2024 13:42:50	Inbound 2	mmalones2		Tare	24700 lb
Out	06/19/2024 14:00:08	Outbound	LGILLILA		Net	13080 lb
					Tons	11620 lb
Comments						5.81

Consumer Comments? We want to know. Please call.

Product	LD%	Qty	DOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC- 100		5.81	Tons				CLACK-OUT
2 EVC-Energy/Adminis 100			%				CLACK-OUT

\$ 434.99

Total Tax  
Total Ticket

Driver's Signature



Hillsboro Landfill, Inc  
3205 SE Minter Bridge  
Hillsboro, OR, 97123  
Ph: (503)-640-9427

Reprint  
Ticket# 1721925

Customer Name BB AND A ENVIRONMENTAL BB&A E Carrier BB AND A  
Ticket Date 06/19/2024 Vehicle# JUSTIN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0005113  
State Waste Code Gen EPA ID 7506  
Manifest NA  
Destination Grid  
PO  
Profile 142877OR (DIESEL FUEL/FUEL OIL CONTAMINATED SOIL )  
Generator RIDDER ROAD-10110 RIDDER ROAD LLC 10110 SW RIDDER RD WILSONVILLE

	Time	Scale	Operator	Inbound	Gross	
In	06/19/2024 15:46:19	Inbound 1	KSURRATT		Tare	19020 lb
Out	06/19/2024 15:59:25	Outbound	cduneven		Net	6000 lb
					Tons	3.00

Comments

Consumer Comments? We want to know. Please call.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC- 100		3.00	Tons				CLACK-OUT
2 EVC-Energy/Adminis 100			%				CLACK-OUT

\$224.60

Total Tax  
Total Ticket

Driver's Signature



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P.O. Box 40187, Eugene, OR 97404  
{541} 484-9484

PORTLAND  
25195 SW Parkway Ave., Suite 207  
Wilsonville, OR 97070  
{503} 570-9484

July 8, 2024

Dave Pardue  
Department of Environmental Quality  
Underground Storage Tank Program  
700 NE Multnomah Street, Suite 600  
Portland, OR 97232-4100

RE: **UST Decommissioning (by Removal) Soil Sampling  
Request for Administrative Closure**  
Interstate Distributor / Ridder Road LLC  
10110 SW Ridder Road, OR  
USTC 03-97-0739 (**Closed**) / 03-07-0289 (**Closed**)  
UST Facility ID 7506

Dear Mr. Pardue:

On behalf of the Ridder Road LLC, BB&A Environmental (BB&A) is submitting this letter report documenting decommissioning by removal four (4) underground storage tanks (USTs), and petroleum-contaminated soil that was discovered at the former Interstate Distributor facility located at 10110 SW Ridder Road, in Wilsonville, Oregon.

## **1.0 SITE DESCRIPTION**

### **1.1 Location and Legal Description**

The *subject property* is identified as the *Former Interstate Distributing Co* (currently *Sunbelt Rental*) located at 10110 SW Ridder Road, in Wilsonville, Oregon (see **Figures 1, 2, and 3, Appendix A**). Clackamas County identifies the *subject property* as tax lots 2400, 2500, 2700 of Map 31W11. The *subject property* is approximately 30.92 acres in size.

### **1.2 Subject Property Description**

The *subject property* formerly operated as a trucking distribution, administration, and maintenance facility. The *subject property* is developed with a maintenance building, adjoining administrative offices, and surrounding asphalt parking areas. The *subject property* formerly operated two (2) 20,000 gallon diesel underground storage tanks (USTs), one (1) 4,000 gallon motor oil UST, and one (1) 6,000 gallon gasoline UST. The USTs were located directed south of the dispenser islands on the east side of the maintenance building. The eight (8) fuel dispensers were located on four (4) dispenser islands. Three (3) of the fuel islands were covered by a canopy.

### **1.3 USTs Out of Service Procedures**

In 2020, the four (4) USTs at the *subject property* were administratively taken out of service, and at that time, all four (4) USTs were pumped and rinsed of available product using a pump truck by Oil Re-Refining (ORRCO).

## **2.0 HYDROGEOLOGIC SETTING**

### **2.1 Physical Setting**

The *subject property* and surrounding area lie within the northern Willamette Valley physiographic division of Oregon. The *subject property* and surrounding area are level, although regional topography dips gently to the southwest. The elevation of the *subject property* is approximately 217 feet above mean sea level<sup>1</sup>.

### **2.2 Local and Regional Geologic and Hydrogeologic Conditions**

According to the U.S. Geological Survey Water-Supply Paper 1967, titled *Geology and Geologic Hazards of Northwestern Clackamas County, Oregon*, the *subject property* and adjacent/nearby properties appear to be underlain by Quaternary Lacustrine Sediments (Qws), known as the *Willamette Silt Formation*, composed of fine sandy silt and clay.

According to a soil survey compiled by the U.S. Department of Agriculture's Natural Resource Conservation Service (USCS), the dominant soils underlying the *subject property* and surrounding area are identified as the Salem silt loam and the Salem gravelly silt loam. According to survey information, these soils are formed on stream terraces and are well-drained. Soil profiles under this soil classification are typified by the upper silt loam layer from the surface to eight (8) inches BLS, gravelly clay loam to 24 inches BLS, and very gravelly loamy sand to a depth of 60 inches.

Based on historical onsite borings completed onsite in 2020, local stratigraphy appears to consist of a gravelly silt from near surface to a depth of approximately fifteen (15) below land surface (BLS), beneath which lies a dense red clay. Groundwater was encountered at a depth of approximately 30 to 35 feet BLS (15 to 20 feet below the UST cavity) under semi-confined conditions in former push probe P8 (April 2020), located adjacent to the east side of the former UST cavity. Groundwater was not encountered in former push probe P10 installed at southwest corner of the UST cavity to a depth of 30 feet BLS.

A review of drillers logs on file with the Oregon Department of Water Resources (WRD) indicated that the shallow groundwater encountered at the site may be artificially created by the tank cavity for the USTs which holds water due to low permeability soils. The review focused on wells from 20 to 35 feet deep and 0.2 to 0.75 miles from the *subject property*. Drillers logs from 26120 SW Parkway Ave, Wilsonville, OR located 0.7 miles east (CLAC18289) of the site did not encounter groundwater in wells installed to a depth of 35 feet. At 9565 SW Ridder Rd (0.2 miles east), drillers logs (CLAC74290) show no groundwater down to a depth of 25 feet.

---

<sup>1</sup>

Google Earth® Elevation Datum, dated May 8, 2019.



### **3.0 UST DECOMMISSIONING**

#### **3.1 Utility Locates**

Prior to initiating excavation activities, a utility locate request was generated using the Oregon 811 Utility Notification Center. In addition, a private utility locate was conducted by APS Locating Inc. All utilities within the excavation area were identified. Lastly, an electrician disconnected all electrical wiring from the electrical panel to the fuel dispenser pumps and the four (4) USTs.

#### **3.2 Fuel Dispenser Removal and Product Line Flushing**

On June 3, 2024, the fuel dispensers were removed for offsite metal recycling. Jammie's Environmental Inc. was onsite to vacuum extract any residual fuel within the product lines and four (4) USTs. At this same time, the product lines were flushed with water, and all available rinse water and product was vacuum extracted from the product lines. The four (4) USTs were rinsed and all available fluids were vacuum extracted from the USTs (Note that the USTs had previously been pumped and rinsed using a pump truck in 2020). The product and rinse water (265 gallons total) were ultimately recycled at Oil Re-Refining (ORRCO) in Portland, Oregon.

#### **3.3 Soil Sampling – Product Line and Fuel Dispensers**

On June 3, 2024, the concrete over the product lines and USTs was cut, and removed for offsite recycling. On June 4, 2024, the product lines between the fuel dispensers were removed, and soil samples were collected from native soil beneath the fuel dispensers and product lines north of the UST cavity. It should be noted, that soil samples were not collected beneath the dispensers on fuel island number two (2), due to pea gravel extending to a depth of 8.5 feet below land surface (BLS). The soil samples beneath these fuel dispensers were collected on June 10, 2024, using a track-mounted Geoprobe® 7822 rig, and push-probe technology, rods, and equipment. Soil cores from each boring were collected using hollow, stainless steel core barrels approximately 60 inches in length and 3.25 inches in diameter. Additional core barrels are added as the probe is advanced. Subsurface soil samples were retrieved within 60-inch long clear plastic tubes, 2.625 inches in diameter, inserted within the lead core barrel.

To collect soil samples beneath the north and south fuel dispensers of fuel island #2, direct push probes DP-1 and DP-2 were advanced to a depth of 10 feet below land surface (BLS). Each of these probes were found to contain pea gravel to a depth of 8.5 feet, beneath which a silty clay was encountered. No obvious evidence of soil contamination was noted in soil beneath the fuel dispensers and product lines. Soil samples were collected from these direct push probes at the uppermost native soil encountered at 8.5 feet BLS (I2-DN-8.5' and I2-DS-8.5').

All soil samples were collected by EPA Method 5035A, using new Terra Core® samplers and laboratory-prepared 40 milliliter (ml) glass VOA vials with appropriate methanol preservative; plus collection of a laboratory-supplied four (4) ounce glass container. Each four (4) ounce soil sample container was filled to maximize volume and minimize headspace. New Terra Core® samplers were used for each sample (i.e., no Terra Core® samplers were re-used). The samples were collected using clean nitrile gloves. Each clean four (4) ounce glass jar was sealed with threaded, teflon-lined caps. The jars were filled such that remaining headspace volume was minimized. The sample jars were uniquely labeled, logged on a chain-of-custody document, and placed on ice in an insulated portable cooler. All soil samples were delivered to Apex Laboratories in Tigard, Oregon, for laboratory analysis of Total Petroleum Identification (TPH) by Method NWTPH-HCID.

**Dispenser / Product Line Soil Analytical Results:** Gasoline- and oil-range TPH were not detected in any of the soil samples from below the dispensers and product lines. Of the 14 soil samples collected, five (5) were found to contain diesel-range TPH at concentrations ranging from 57.4 to 966 milligrams per kilogram (mg/kg), or parts per million (ppm).

### **3.4 Excavating Operations and Periodic Monitoring of Soil**

During excavation of soil above the four (4) USTs, excavated soil was periodically monitored using an Organic Vapor Meter with Photoionization Detector (OVM-PID). During the periodic monitoring, a pocket of soil contamination was noted between the two (2) 20,000-gallon USTs, in the vicinity of a former catch basin, and an unknown metal structure that had been covered by a steel plate. This soil was placed on, and covered with visqueen plastic sheeting. Based on field measurements, the extent of this small area of petroleum-contaminated soil appeared to be approximately eight (8) feet north-south by four (4) feet east-west, and to a depth of approximately six (6) feet below land surface (BLS).

Two (2) composite soil samples were collected from the segregated contaminated soil. Laboratory analysis of the two (2) composite soil samples detected oil-range TPH at a concentration of 43.4 ppm, gasoline-range TPH at 35 ppm, ethylbenzene at 0.0522 ppm, and xylenes at 0.49 ppm. A soil disposal permit was obtained from Waste Management, and the approximately 13.57 tons of contaminated soil was disposed of at the Waste Management Hillsboro Landfill. The complete laboratory report is provided in **Attachment B**, and the soil disposal receipt is provided in **Attachment C**.

### **3.5 UST Inerting and Removal**

Prior to removal, the USTs were inerted by ventilation using an air compressor and eductor apparatus. Prior to removal, the interior of the USTs were inspected (using a flashlight and/or taking interior photographs) to confirm that the interior was clean and absent of residual fuel. Upon confirming that the tank atmosphere was safe for removal, that is, less than five (5) percent of the lower explosive limit (LEL), the four (4) USTs were removed in large pieces, and then placed into a 40-yard drop box, crushed, and hauled off for disposal as solid waste by Republic Services.

### **3.6 Soil Sampling – Beneath Former USTs**

Upon removal of the USTs, soil samples were collected from native soil beneath the north and south ends of the 4,000-gallon motor oil UST, and 6,000-gallon gasoline UST using the bucket of the excavator. Similarly, soil samples were collected from native soil beneath the middle and south end of the eastern 20,000-gallon diesel UST using the excavator bucket. However, due to the volume of pea gravel and depth of the UST cavity, the north soil sample beneath the eastern 20,000-gallon UST, and all three (3) soil samples beneath the western 20,000-gallon diesel UST were collected after backfill using a using a track-mounted Geoprobe® 7822 rig, and push-probe technology, rods, and equipment.

The 4,000-gallon motor oil UST, and 6,000-gallon gasoline UST were identified as being eight (8) feet in diameter, with a two (1) foot burial, and one (1) foot of base pea gravel beneath the USTs. Soil samples collected beneath the 4,000-gallon motor oil UST and 6,000-gallon gasoline UST were collected from native soil at a depth of approximately 11 feet BLS, and were labeled 4K-N-11', 4K-S-11', 6K-N-11', and 6K-S-11'.

The two (2) 20,000-gallon diesel USTs were identified as being 10 feet in diameter, having approximately two (2) to three (3) foot burial, and a base of at least one (1) foot of pea gravel. Soil samples collected beneath the two (2) 20,000-gallon USTs were labeled E20K-N-13.5'-14', E20K-M-15', E20K-S-13.5', W20K-N-13.5'-14', W20K-M-13.5'-14', and W20K-S-13.5'-14'.

The soil analytical results for all soil samples are provided in **Table 1**. The complete laboratory report is provided in **Attachment B**.

**Table 1: UST Decommissioning Soil Analytical Results**

All concentrations in parts per million (ppm) or milligrams per Kilogram (mg/Kg).  
Where shaded not analyzed.  
**ND** (<0.2) : Indicates not detected above method-reporting limit identified in parentheses  
P Line: Product Line DP: Direct-Push Probe (DP1 through DP7)

SOIL SAMPLE IDENTIFICATION (Depth)		Total Petroleum Hydrocarbons (TPH)			Petroleum Related	
		Gasoline-Range TPH	Diesel-Range TPH	Oil-Range TPH	Benzene	Toluene
Confirmation Soil Samples – UST Decommissioning (2024)						
I1-DN-2.5' (Island #1 - N Dispenser)		ND<23.3	ND<58.1	ND<116		
DP1 / I2-DN-8.5' (Island #2 - N Dispenser)		ND<25.5	ND<63.6	ND<127		
DP2 / I2-DS-8.5' (Island #2 - S Dispenser)		ND<23.3	<b>274</b>	ND<42		
I3-DN-3' (Island #2 - N Dispenser)		ND<23.5	<b>695</b>	ND<43.9		
I3-DS-3' (Island #3 - S Dispenser)		ND<23.7	ND<59.3	ND<119		
I4-DN-2' (Island #4 - N Dispenser)		ND<24.7	<b>134</b>	ND<46		
I4-DM-2' (Island #4 - Mid Dispenser)		ND<22.1	ND<55.3	ND<111		
I4-DS-2' (Island #4 - S Dispenser)		ND<24.6	ND<61.6	ND<123		
PL-1/2-2.5' (P line between Islands 1&2)		ND<22.5	ND<56.3	ND<113		
PL-2/3-3' (P line between Islands 2&3)		ND<22.8	<b>57.4</b>	ND<43.5		
PL-3/4M-2' (PL between Islands 3&4)		ND<25.1	<b>966</b>	ND<45.6		
PL-3/4N-2' (PL between Islands 3&4)		ND<23	ND<57.4	ND<115		
E Elbow PL-2' (Elbow E of S Disp #3)		ND<21.9	ND<54.8	ND<110		
DP3 / PL Trench-3' (PL trench NE)		ND<23.3	ND<53.3	ND<117		
E20K-N-13.5'-14' (E 20K UST)		ND<24.2	ND<60.6	ND<121		
E20K-M-15' (E 20K UST)		ND<23.5	ND<58.8	ND<118		
E20K-S-13.5'-14' (E 20K UST)		ND<23.7	<b>4,050</b>	ND<118	ND<0.0117	ND<0.0586
W20K-N-13.5'-14' (W 20K UST)		ND<23.8	ND<59.4	ND<119		
W20K-M-13.5'-14' (W 20K UST)		ND<23	ND<57.6	ND<115		
W20K-S-13.5'-14' (W 20K UST)		ND<23.5	<b>409</b>	ND<43.8		
4K-N-11' (4K Oil UST)		ND<25.3	ND<63.3	ND<127		
4K-S-11' (4K Oil UST)		ND<26.2	ND<65.4	ND<131		
6K-N-11' (6K Gas UST)		ND<26.9	ND<67.2	ND<134		
6K-S-11' (6K Gas UST)		ND<24.6	ND<61.4	ND<123		
COMP1 (Composite Sample)		ND<5.69	ND<54.1	<b>43.4</b>	ND<0.0114	ND<0.0569
COMP2 (Composite Sample)		<b>35.0</b>	ND<19.3	ND<38.6	ND<0.0103	ND<0.0517
Soil Ingestion, Dermal Contact, and Inhalation	Occupational	20,000	14,000	Site Specific	37	88,000
	Construction Worker	9,700	4,600	Site Specific	380	28,000
	Excavation Worker	>Max	>Max	Site Specific	11,000	770,000
Occupational Volatilization to Outdoor Air		69,000	>Max	Site Specific	50	>Csat
Occupational Leaching to Groundwater		130	>Max	Site Specific	0.10	490



### **3.7 Push-Probe Soil Sampling**

Due to the volume of pea gravel and depth of the UST cavity, the north soil sample beneath the eastern 20,000-gallon UST, and all three (3) soil samples beneath the western 20,000-gallon diesel UST were collected after backfill using a using a track-mounted Geoprobe® 7822 rig, and push-probe technology, rods, and equipment. These soil samples were collected on June 10, 2024, using a track-mounted Geoprobe® 7822 rig, and push-probe technology, rods, and equipment.

To collect the soil samples beneath the 20,000-gallon diesel USTs, direct-push probes DP-4 through DP-7 were advanced to depths of 18 to 20 feet BLS. Groundwater was not encountered in any of the push probes. Each of these probes were found to contain pea gravel to a depth of approximately 13 to 13.5 feet BLS, beneath which a silty clay was encountered. No obvious evidence of soil contamination was noted in soil beneath the northern half of the two (2) 20,000-gallon USTs; however, a thin band of grey-stained contaminated soil (less than four [4] inches in vertical thickness) was noted beneath the southern end of each UST. Soil samples were collected from these direct-push probes at the uppermost native soil encountered at 13.5 to 14 feet BLS (W20K-N-13.5-14', W20K-M-13.5-14', W20K-S-13.5-14' and E20K-N-13.5'-14'). The sample depths and observations were more accurate than sampling procedures using the excavation bucket.

All soil samples were collected by EPA Method 5035A, using new Terra Core® samplers and laboratory-prepared 40 ml glass VOA vials with appropriate methanol preservative; plus collection of a laboratory-supplied four (4) ounce glass container. Each four (4) ounce soil sample container was filled to maximize volume and minimize headspace. New Terra Core® samplers were used for each sample (i.e., no Terra Core® samplers were re-used). The samples were collected using clean nitrile gloves. Each clean four (4) ounce glass jar was sealed with threaded, teflon-lined caps. The jars were filled such that remaining headspace volume was minimized. The sample jars were uniquely labeled, logged on a chain-of-custody document, and placed on ice in an insulated portable cooler. All soil samples were delivered to Apex Laboratories in Tigard, Oregon, for laboratory analysis of Total Petroleum Identification (TPH) by Method NWTPH-HCID.

**UST Confirmation Soil Sampling Analytical Results:** Gasoline-, diesel-, and oil-range TPH were not detected in confirmation soil samples beneath the 4,000-gallon motor oil UST, nor beneath the 6,000-gallon gasoline UST. In addition, gasoline-, diesel-, and oil-range TPH were not detected beneath the northern half of the two (2) 20,000-gallon diesel USTs. Further, gasoline- and oil-range TPH were not detected beneath the southern half of these USTs. However, beneath the southern end of the 20,000-gallon USTs, diesel-range TPH was detected at 409 ppm beneath the western 20,000-gallon UST, and at 4,050 ppm beneath the eastern 20,000-gallon UST. Soil sample E20K-S-13.5-14' was additionally analyzed for benzene, toluene, ethylbenzene, and xylenes, per EPA Method 8260B, and polyaromatic hydrocarbons (PAHs) per EPA Method 8270SIM.

### **3.8 Risk-Based Contaminant Concentration Comparison**

Included in **Table 1** are reasonably applicable Risk-Based Concentrations (RBCs) developed for the *subject property*. The *subject property* operates as an equipment rental facility, and all adjacent properties are of non-residential use, including Bonneville Power electrical substations to the east and northeast, a Republic Services waste and recycling transfer station to the north, a glass manufacturing facility to the east, and a large Amazon parking lot to the south. As such, reasonably applicable RBCs for the *subject property* include Occupational, Construction Worker, and Excavation Worker receptor scenarios. None of the detected contaminants exceed any applicable RBCs.

### **3.9 Backfill/Resurfacing**

Upon completion of UST decommissioning and site assessment activities, the excavation area was backfilled with existing pea gravel, which was covered with erosion fabric, and then covered with imported three-quarter (3/4) inch minus gravel soil. At this time, the catch basins were replaced with a single heavy duty catch basin near the center of the excavation. The 3/4" gravel was compacted in one-half (0.5) to one (1) foot lifts, prior to paving with four (4) inches of asphalt.

### **3.10 Release Reporting**

On June 28 2024, the release was reported to the DEQ via the DEQ's online reporting website. The DEQ has yet to issue a leaking underground storage tank (LUST) file number for the site.

## **4.0 HISTORICAL CONTAMINATION**

In 2007, a spill of approximately 40 gallons of diesel fuel occurred at the subject site near the west end of the registered fuel dispenser island. A release was reported to the DEQ and the DEQ assigned the release as LUST file no. 03-07-0289. A total of approximately 61.88 tons of petroleum contaminated soil was excavated from the spill area and eventually transported off-site for disposal to Hillsboro Landfill for disposal. Residual diesel-range contamination left in place at the site beneath the footing for the canopy was detected at 1,830 ppm. The DEQ issued a no further action (NFA) determination for the site. The residual contamination is similar in magnitude to the contaminant concentrations detected beneath the southern end of the 20,000-gallon USTs. Based on the findings of push-probes advanced beneath and adjacent to the UST cavity, seasonal groundwater was found to occur at a depth of 30 to 35 feet BLS, approximately 15 to 20 feet below the depth of residual soil contamination at the bottom of the UST cavity.

Based on these findings, and the fact that detected contaminants were all well below applicable RBCs, BB&A recommend that an administrative NFA determination be issued for the site and most recent leaking underground storage tank (LUST) file.

Should you have any questions regarding this information, please do not hesitate to contact me at your convenience.

Sincerely,

BB&A Environmental



Stephen M. Omo, RG  
Project Manager

**List of Attachments:**

**Attachment A:** Figures

**Attachment B:** Laboratory Reports and Chain of Custody Documents

**Attachment C:** Push-Probe Logs

**Attachment D:** Soil and Fuel/Rinse Water Disposal Receipts

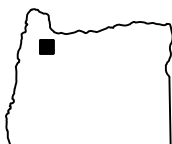
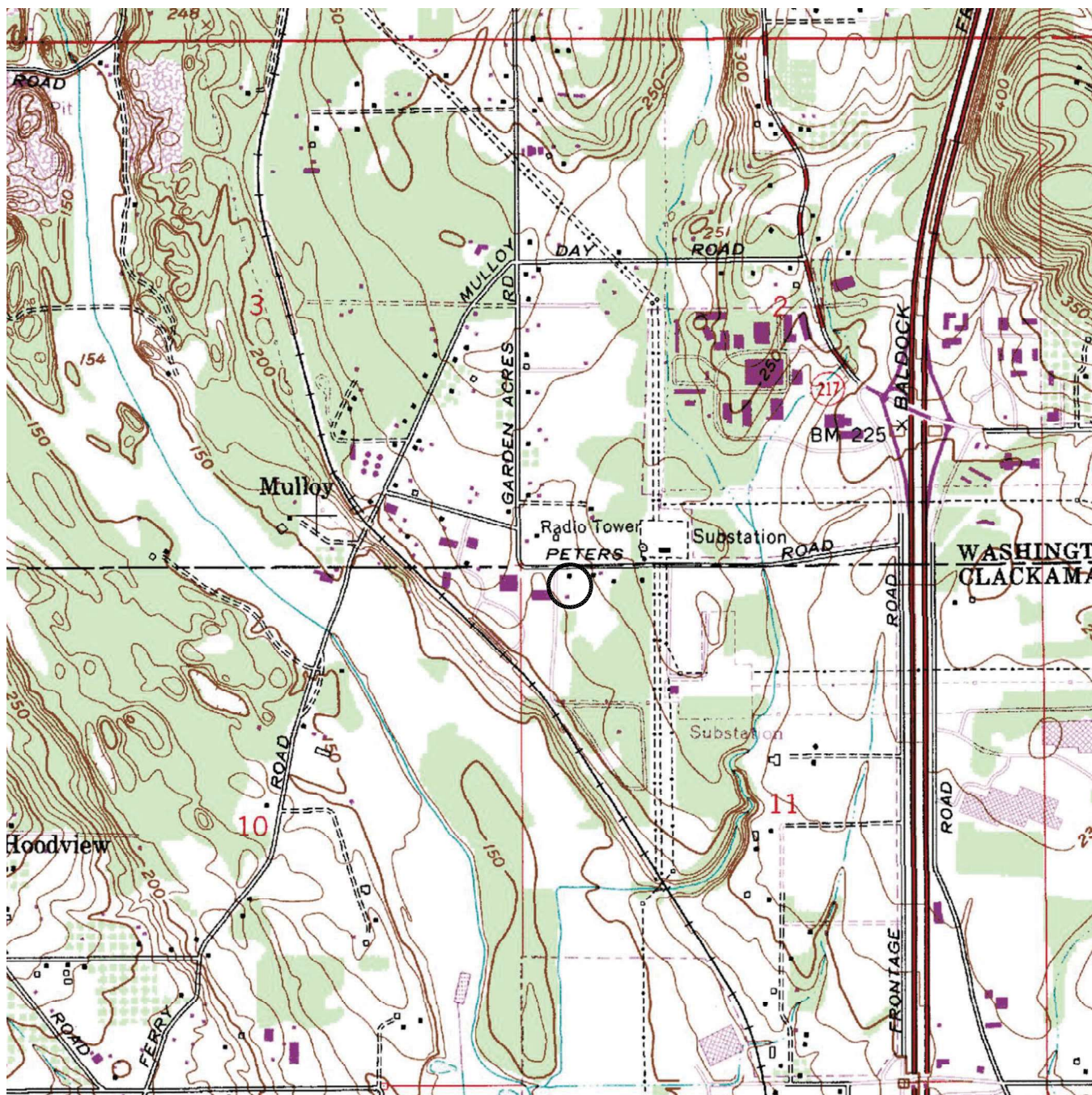
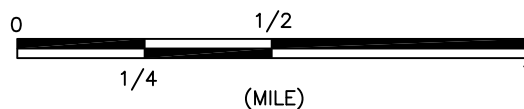


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# ATTACHMENT A

Figures

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OREGON



SITE LOCATION

FIGURE 1

INTERSTATE DISTRIBUTOR CO., 10110 Ridder Rd., WILSONVILLE, OR

SITE VICINITY MAP



EUGENE OFFICE  
32986 Roberts Ct.  
Coburg, OR  
ph: 541.484.9484

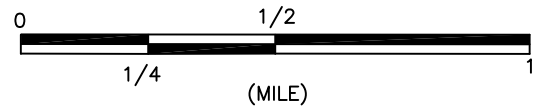
PORTLAND OFFICE  
25195 SW Parkway Ave., #207  
Wilsonville, OR  
ph: 503.570.9484

www.BBAENV.COM

Job Code: IDC01DEC.24UC
CADD File: IDC01.DWG
Scale: AS SHOWN
Drawn: KATHRYN DAVIS DESIGNS
Checked: STEPHEN OMO
Date: 06/12/24

SOURCE: USGS TOPOGRAPHIC QUADRANGLE  
SERIES: 7.5 MINUTES, SHERWOOD, OR





 SITE LOCATION



EUGENE OFFICE  
32986 Roberts Ct.  
Coburg, OR  
ph: 541.484.9484

PORTLAND OFFICE  
25195 SW Parkway Ave., #207  
Wilsonville, OR  
ph: 503.570.9484

[www.BBAENV.COM](http://www.BBAENV.COM)

INTERSTATE DISTRIBUTOR COMPANY  
AERIAL PHOTOGRAPH  
10110 RIDDER ROAD, WILSONVILLE, OREGON

PROJECT CODE:  
IDC01DEC.24UC

DATE:  
07/05/24

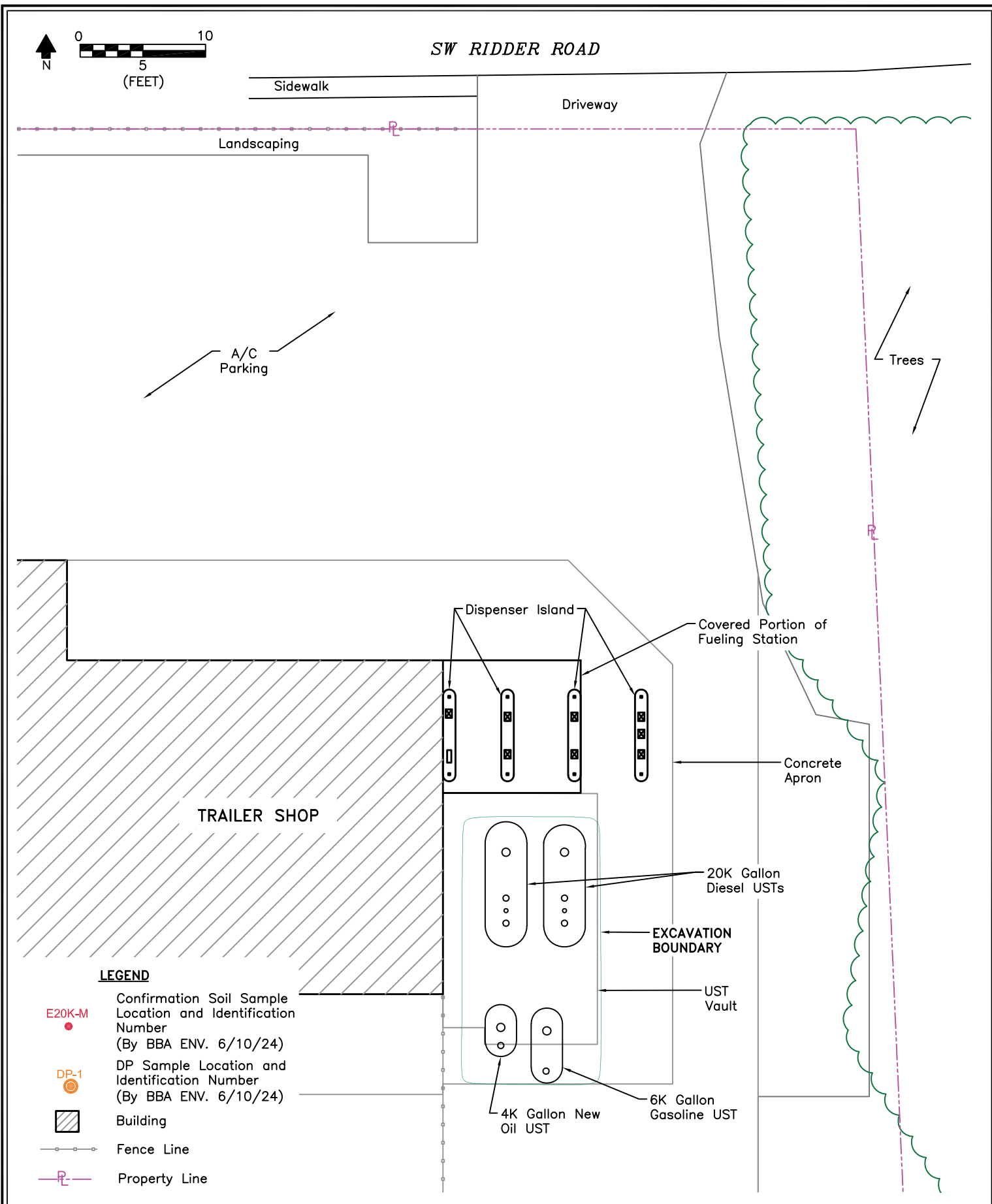
SCALE:  
AS SHOWN

DRAWN:  
K.D.DESIGNS

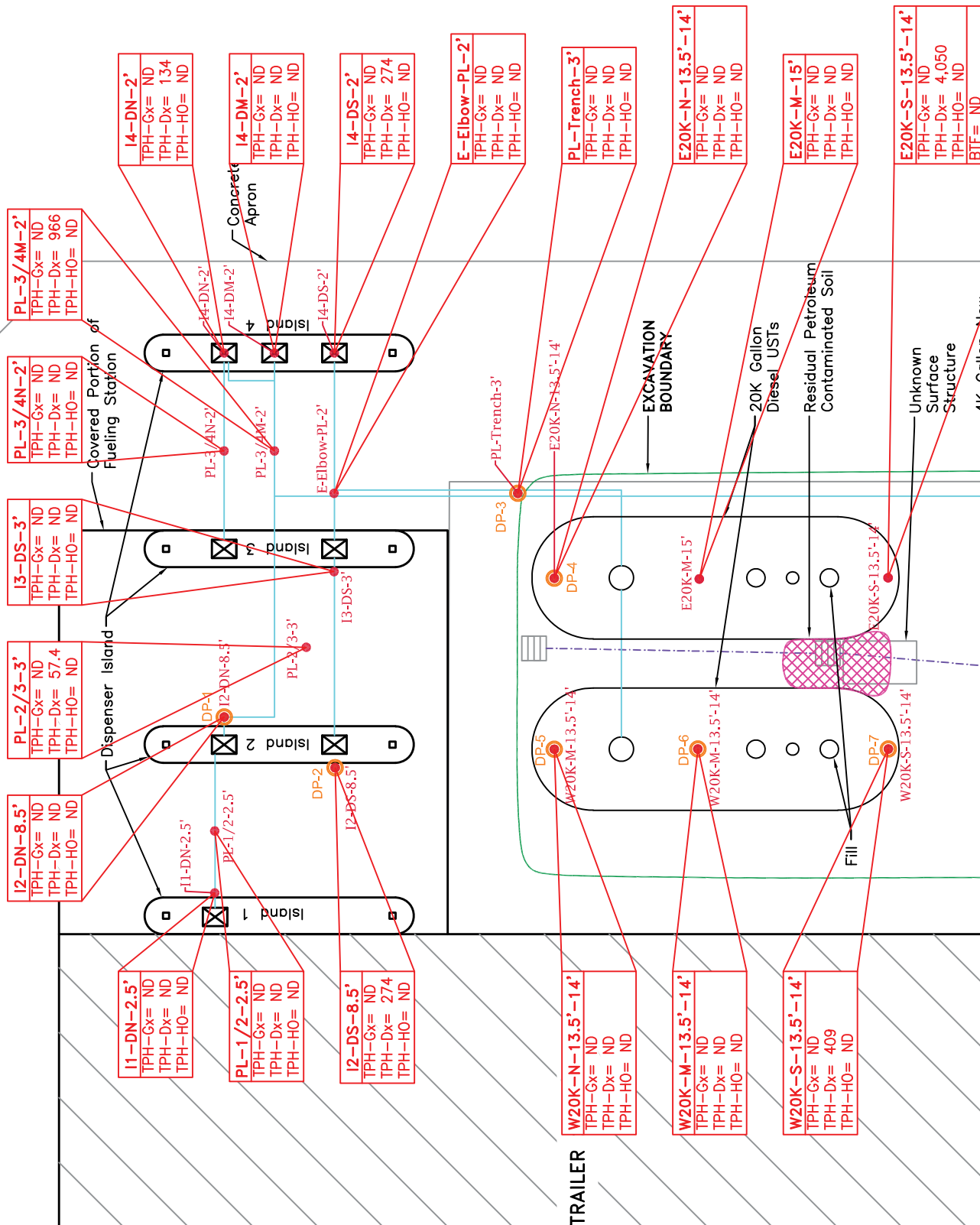
CHECKED:  
STEPHEN OMO

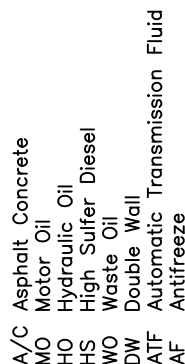
FIGURE #:

2









Building  
Fence Line  
Catch Basin  
Stormwater Line

E20K-S-13.5'-14'
TPH-Gx= ND
TPH-Dx= 4,050
TPH-HO= ND
BTE= ND
X= 0.103
Pyrene= 0.928
All Other PAHs= ND



**EUGENE OFFICE**  
32986 Roberts Ct.  
Coburg, OR  
ph: 541.484.9484

**PORTLAND OFFICE**  
25195 SW Parkway Ave., #207  
Wilsonville, OR  
ph: 503.570.9484

www.BBAENV.COM

**SITE PLAN SHOWING SOIL ANALYTICAL DATA  
INTERSTATE DISTRIBUTOR COMPANY**

10110 SW RIDDER ROAD, WILSONVILLE, OREGON

PROJECT CODE: IDC01DEC:24UC

DATE:	07/05/24	SCALE:	1"=30'
-------	----------	--------	--------

**DRAWN:** K.D.DESIGNS

STEPHEN OMO

**FIGURE #:**



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# ATTACHMENT B

Laboratory Report

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ANALYTICAL REPORT

AMENDED REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Wednesday, July 3, 2024

Steve Omo

BB&A Environmental - Wilsonville

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

RE: A4F0906 - R McLean Wilsonville - IDC01DEC.24UC

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A4F0906, which was received by the laboratory on 6/6/2024 at 8:00:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: [DAuvil@apex-labs.com](mailto:DAuvil@apex-labs.com), or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.

(See Cooler Receipt Form for details)

Default Cooler      3.1      degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

*The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.*

Darrell Auvil, Client Services Manager

**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**

Project Number: IDC01DEC.24UC

Project Manager: Steve Omo

**Report ID:**

A4F0906 - 07 03 24 0935

**ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
IDC01-I4-DS-2'	A4F0906-01	Soil	06/04/24 08:00	06/06/24 08:00
IDC01-I4-DM-2'	A4F0906-02	Soil	06/04/24 08:15	06/06/24 08:00
IDC01-I4-DN-2'	A4F0906-03	Soil	06/04/24 08:25	06/06/24 08:00
IDC01-I3-DN-3'	A4F0906-04	Soil	06/04/24 09:35	06/06/24 08:00
IDC01-I3-DS-3'	A4F0906-05	Soil	06/04/24 09:30	06/06/24 08:00
IDC01-I1-DN-2.5'	A4F0906-06	Soil	06/04/24 10:55	06/06/24 08:00
IDC01-E Elbow PL-2'	A4F0906-07	Soil	06/04/24 08:40	06/06/24 08:00
IDC01-PL-3/4N-2'	A4F0906-08	Soil	06/04/24 11:25	06/06/24 08:00
IDC01-PL-3/4M-2'	A4F0906-09	Soil	06/04/24 11:30	06/06/24 08:00
IDC01-PL-2/3-3'	A4F0906-10	Soil	06/04/24 11:15	06/06/24 08:00
IDC01-PL-1/2-2.5'	A4F0906-11	Soil	06/04/24 11:10	06/06/24 08:00
IDC01-E20K-M-15'	A4F0906-12	Soil	06/04/24 17:00	06/06/24 08:00
IDC01-E20K-S-13.5'	A4F0906-13	Soil	06/04/24 17:15	06/06/24 08:00
IDC01-4K-N-11'	A4F0906-14	Soil	06/05/24 15:40	06/06/24 08:00
IDC01-4K-S-11'	A4F0906-15	Soil	06/05/24 15:30	06/06/24 08:00
IDC01-6K-S-11'	A4F0906-16	Soil	06/05/24 17:00	06/06/24 08:00
IDC01-6K-N-11'	A4F0906-17	Soil	06/05/24 17:10	06/06/24 08:00
IDC01-COMP1	A4F0906-18	Soil	06/05/24 16:00	06/06/24 08:00
IDC01-COMP2	A4F0906-19	Soil	06/05/24 16:05	06/06/24 08:00

Apex Laboratories

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Darrell Auvil, Client Services Manager



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

BB&A Environmental - Wilsonville

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: R McLean Wilsonville

Project Number: IDC01DEC.24UC

Project Manager: Steve Omo

Report ID:

A4F0906 - 07 03 24 0935

ANALYTICAL CASE NARRATIVE

Work Order: **A4F0906**

**Apex Laboratories**

Amended Report Revision 1:

This report supersedes all previous reports.

A partial final report was sent to the client on 6/20/2024. This report includes all data for the samples received and logged in under work order A4F0906.

Darrell Auvil  
Client Services Manager  
6/27/2028

Apex Laboratories

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Darrell Auvil, Client Services Manager



## ANALYTICAL REPORT

## AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## ANALYTICAL SAMPLE RESULTS

## Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>IDC01-I4-DS-2' (A4F0906-01)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	24.6	mg/kg dry	1	06/08/24 04:19	NWTPH-HCID	
Diesel Range Organics	ND	---	61.6	mg/kg dry	1	06/08/24 04:19	NWTPH-HCID	
Oil Range Organics	ND	---	123	mg/kg dry	1	06/08/24 04:19	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	86 %	Limits: 50-150 %	1	06/08/24 04:19	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			81 %	50-150 %	1	06/08/24 04:19	NWTPH-HCID	
<b>IDC01-I4-DM-2' (A4F0906-02)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	22.1	mg/kg dry	1	06/07/24 22:01	NWTPH-HCID	
Diesel Range Organics	ND	---	55.3	mg/kg dry	1	06/07/24 22:01	NWTPH-HCID	
Oil Range Organics	ND	---	111	mg/kg dry	1	06/07/24 22:01	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	96 %	Limits: 50-150 %	1	06/07/24 22:01	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			92 %	50-150 %	1	06/07/24 22:01	NWTPH-HCID	
<b>IDC01-I4-DN-2' (A4F0906-03)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	24.7	mg/kg dry	1	06/07/24 22:25	NWTPH-HCID	
Diesel Range Organics	<b>DET</b>	---	61.8	mg/kg dry	1	06/07/24 22:25	NWTPH-HCID	F-11
Oil Range Organics	ND	---	124	mg/kg dry	1	06/07/24 22:25	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	100 %	Limits: 50-150 %	1	06/07/24 22:25	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			97 %	50-150 %	1	06/07/24 22:25	NWTPH-HCID	
<b>IDC01-I3-DN-3' (A4F0906-04)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	23.5	mg/kg dry	1	06/07/24 22:48	NWTPH-HCID	
Diesel Range Organics	<b>DET</b>	---	58.7	mg/kg dry	1	06/07/24 22:48	NWTPH-HCID	F-11
Oil Range Organics	ND	---	117	mg/kg dry	1	06/07/24 22:48	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	96 %	Limits: 50-150 %	1	06/07/24 22:48	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			91 %	50-150 %	1	06/07/24 22:48	NWTPH-HCID	
<b>IDC01-I3-DS-3' (A4F0906-05)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	23.7	mg/kg dry	1	06/07/24 23:12	NWTPH-HCID	
Diesel Range Organics	ND	---	59.3	mg/kg dry	1	06/07/24 23:12	NWTPH-HCID	
Oil Range Organics	ND	---	119	mg/kg dry	1	06/07/24 23:12	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	99 %	Limits: 50-150 %	1	06/07/24 23:12	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			97 %	50-150 %	1	06/07/24 23:12	NWTPH-HCID	
<b>IDC01-I1-DN-2.5' (A4F0906-06)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		

Apex Laboratories

Darrell Auvil, Client Services Manager

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## ANALYTICAL REPORT

## AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## ANALYTICAL SAMPLE RESULTS

## Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>IDC01-I1-DN-2.5' (A4F0906-06)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	23.3	mg/kg dry	1	06/07/24 23:36	NWTPH-HCID	
Diesel Range Organics	ND	---	58.1	mg/kg dry	1	06/07/24 23:36	NWTPH-HCID	
Oil Range Organics	ND	---	116	mg/kg dry	1	06/07/24 23:36	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	95 %	Limits: 50-150 %	1	06/07/24 23:36	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			90 %	50-150 %	1	06/07/24 23:36	NWTPH-HCID	
<b>IDC01-E Elbow PL-2' (A4F0906-07)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	21.9	mg/kg dry	1	06/07/24 23:59	NWTPH-HCID	
Diesel Range Organics	ND	---	54.8	mg/kg dry	1	06/07/24 23:59	NWTPH-HCID	
Oil Range Organics	ND	---	110	mg/kg dry	1	06/07/24 23:59	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	95 %	Limits: 50-150 %	1	06/07/24 23:59	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			86 %	50-150 %	1	06/07/24 23:59	NWTPH-HCID	
<b>IDC01-PL-3/4N-2' (A4F0906-08)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	23.0	mg/kg dry	1	06/08/24 00:23	NWTPH-HCID	
Diesel Range Organics	ND	---	57.4	mg/kg dry	1	06/08/24 00:23	NWTPH-HCID	
Oil Range Organics	ND	---	115	mg/kg dry	1	06/08/24 00:23	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	96 %	Limits: 50-150 %	1	06/08/24 00:23	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			89 %	50-150 %	1	06/08/24 00:23	NWTPH-HCID	
<b>IDC01-PL-3/4M-2' (A4F0906-09)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	25.1	mg/kg dry	1	06/08/24 05:06	NWTPH-HCID	
Diesel Range Organics	<b>DET</b>	---	62.8	mg/kg dry	1	06/08/24 05:06	NWTPH-HCID	F-11
Oil Range Organics	ND	---	126	mg/kg dry	1	06/08/24 05:06	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	104 %	Limits: 50-150 %	1	06/08/24 05:06	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			98 %	50-150 %	1	06/08/24 05:06	NWTPH-HCID	
<b>IDC01-PL-2/3-3' (A4F0906-10)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	22.8	mg/kg dry	1	06/08/24 00:47	NWTPH-HCID	
Diesel Range Organics	<b>DET</b>	---	57.0	mg/kg dry	1	06/08/24 00:47	NWTPH-HCID	F-11
Oil Range Organics	ND	---	114	mg/kg dry	1	06/08/24 00:47	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	99 %	Limits: 50-150 %	1	06/08/24 00:47	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			92 %	50-150 %	1	06/08/24 00:47	NWTPH-HCID	
<b>IDC01-PL-1/2-2.5' (A4F0906-11)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		

Apex Laboratories

Darrell Auvil, Client Services Manager

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## ANALYTICAL REPORT

## AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## ANALYTICAL SAMPLE RESULTS

## Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>IDC01-PL-1/2-2.5' (A4F0906-11)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	22.5	mg/kg dry	1	06/08/24 01:10	NWTPH-HCID	
Diesel Range Organics	ND	---	56.3	mg/kg dry	1	06/08/24 01:10	NWTPH-HCID	
Oil Range Organics	ND	---	113	mg/kg dry	1	06/08/24 01:10	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	92 %	Limits: 50-150 %	1	06/08/24 01:10	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			87 %	50-150 %	1	06/08/24 01:10	NWTPH-HCID	
<b>IDC01-E20K-M-15' (A4F0906-12)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	23.5	mg/kg dry	1	06/08/24 01:34	NWTPH-HCID	
Diesel Range Organics	ND	---	58.8	mg/kg dry	1	06/08/24 01:34	NWTPH-HCID	
Oil Range Organics	ND	---	118	mg/kg dry	1	06/08/24 01:34	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	93 %	Limits: 50-150 %	1	06/08/24 01:34	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			79 %	50-150 %	1	06/08/24 01:34	NWTPH-HCID	
<b>IDC01-E20K-S-13.5' (A4F0906-13)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	23.7	mg/kg dry	1	06/08/24 01:58	NWTPH-HCID	
Diesel Range Organics	<b>DET</b>	---	59.1	mg/kg dry	1	06/08/24 01:58	NWTPH-HCID	
Oil Range Organics	ND	---	118	mg/kg dry	1	06/08/24 01:58	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	123 %	Limits: 50-150 %	1	06/08/24 01:58	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			108 %	50-150 %	1	06/08/24 01:58	NWTPH-HCID	
<b>IDC01-4K-N-11' (A4F0906-14)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	25.3	mg/kg dry	1	06/08/24 02:21	NWTPH-HCID	
Diesel Range Organics	ND	---	63.3	mg/kg dry	1	06/08/24 02:21	NWTPH-HCID	
Oil Range Organics	ND	---	127	mg/kg dry	1	06/08/24 02:21	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	99 %	Limits: 50-150 %	1	06/08/24 02:21	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			81 %	50-150 %	1	06/08/24 02:21	NWTPH-HCID	
<b>IDC01-4K-S-11' (A4F0906-15)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	26.2	mg/kg dry	1	06/08/24 02:44	NWTPH-HCID	
Diesel Range Organics	ND	---	65.4	mg/kg dry	1	06/08/24 02:44	NWTPH-HCID	
Oil Range Organics	ND	---	131	mg/kg dry	1	06/08/24 02:44	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	99 %	Limits: 50-150 %	1	06/08/24 02:44	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			78 %	50-150 %	1	06/08/24 02:44	NWTPH-HCID	
<b>IDC01-6K-S-11' (A4F0906-16)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		

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25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## ANALYTICAL SAMPLE RESULTS

## Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>IDC01-6K-S-11' (A4F0906-16)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	24.6	mg/kg dry	1	06/08/24 03:08	NWTPH-HCID	
Diesel Range Organics	ND	---	61.4	mg/kg dry	1	06/08/24 03:08	NWTPH-HCID	
Oil Range Organics	ND	---	123	mg/kg dry	1	06/08/24 03:08	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	91 %	Limits: 50-150 %	1	06/08/24 03:08	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			80 %	50-150 %	1	06/08/24 03:08	NWTPH-HCID	
<b>IDC01-6K-N-11' (A4F0906-17)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0240</b>		
Gasoline Range Organics	ND	---	26.9	mg/kg dry	1	06/08/24 03:32	NWTPH-HCID	
Diesel Range Organics	ND	---	67.2	mg/kg dry	1	06/08/24 03:32	NWTPH-HCID	
Oil Range Organics	ND	---	134	mg/kg dry	1	06/08/24 03:32	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	89 %	Limits: 50-150 %	1	06/08/24 03:32	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			76 %	50-150 %	1	06/08/24 03:32	NWTPH-HCID	
<b>IDC01-COMP1 (A4F0906-18)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0213</b>		
Gasoline Range Organics	ND	---	21.6	mg/kg dry	1	06/06/24 23:44	NWTPH-HCID	
Diesel Range Organics	ND	---	54.1	mg/kg dry	1	06/06/24 23:44	NWTPH-HCID	
Oil Range Organics	<b>DET</b>	---	108	mg/kg dry	1	06/06/24 23:44	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	89 %	Limits: 50-150 %	1	06/06/24 23:44	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			89 %	50-150 %	1	06/06/24 23:44	NWTPH-HCID	
<b>IDC01-COMP2 (A4F0906-19)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0213</b>		
Gasoline Range Organics	ND	---	20.5	mg/kg dry	1	06/07/24 00:05	NWTPH-HCID	
Diesel Range Organics	ND	---	51.4	mg/kg dry	1	06/07/24 00:05	NWTPH-HCID	
Oil Range Organics	ND	---	103	mg/kg dry	1	06/07/24 00:05	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		Recovery:	95 %	Limits: 50-150 %	1	06/07/24 00:05	NWTPH-HCID	
4-Bromofluorobenzene (Surr)			95 %	50-150 %	1	06/07/24 00:05	NWTPH-HCID	

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## ANALYTICAL SAMPLE RESULTS

## Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
IDC01-I4-DN-2' (A4F0906-03)				Matrix: Soil	Batch: 24F0567			
Diesel	134	---	23.0	mg/kg dry	1	06/17/24 21:47	NWTPH-Dx	F-11, Q-39, Q-42
Oil	ND	---	46.0	mg/kg dry	1	06/17/24 21:47	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 82 %		Limits: 50-150 %	1	06/17/24 21:47	NWTPH-Dx	
IDC01-I3-DN-3' (A4F0906-04)				Matrix: Soil	Batch: 24F0567			
Diesel	695	---	22.0	mg/kg dry	1	06/18/24 09:14	NWTPH-Dx	F-11
Oil	ND	---	43.9	mg/kg dry	1	06/18/24 09:14	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 88 %		Limits: 50-150 %	1	06/18/24 09:14	NWTPH-Dx	
IDC01-PL-3/4M-2' (A4F0906-09)				Matrix: Soil	Batch: 24F0567			
Diesel	966	---	22.8	mg/kg dry	1	06/18/24 10:01	NWTPH-Dx	F-11
Oil	ND	---	45.6	mg/kg dry	1	06/18/24 10:01	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 73 %		Limits: 50-150 %	1	06/18/24 10:01	NWTPH-Dx	
IDC01-PL-2/3-3' (A4F0906-10)				Matrix: Soil	Batch: 24F0567			
Diesel	57.4	---	21.7	mg/kg dry	1	06/18/24 06:30	NWTPH-Dx	F-11
Oil	ND	---	43.5	mg/kg dry	1	06/18/24 06:30	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 80 %		Limits: 50-150 %	1	06/18/24 06:30	NWTPH-Dx	
IDC01-E20K-S-13.5' (A4F0906-13RE1)				Matrix: Soil	Batch: 24F0567			
Diesel	4050	---	115	mg/kg dry	5	06/18/24 15:54	NWTPH-Dx	
Oil	ND	---	229	mg/kg dry	5	06/18/24 15:54	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 85 %		Limits: 50-150 %	5	06/18/24 15:54	NWTPH-Dx	
IDC01-COMP1 (A4F0906-18)				Matrix: Soil	Batch: 24F0171			
Diesel	ND	---	19.6	mg/kg dry	1	06/06/24 21:42	NWTPH-Dx	
Oil	43.4	---	39.3	mg/kg dry	1	06/06/24 21:42	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 89 %		Limits: 50-150 %	1	06/06/24 21:42	NWTPH-Dx	
IDC01-COMP2 (A4F0906-19RE1)				Matrix: Soil	Batch: 24F0171			
Diesel	ND	---	19.3	mg/kg dry	1	06/07/24 08:25	NWTPH-Dx	F-26
Oil	ND	---	38.6	mg/kg dry	1	06/07/24 08:25	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 96 %		Limits: 50-150 %	1	06/07/24 08:25	NWTPH-Dx	

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Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## ANALYTICAL SAMPLE RESULTS

## Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>IDC01-COMP1 (A4F0906-18)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0185</b>		<b>V-15</b>
Gasoline Range Organics	ND	---	5.69	mg/kg dry	50	06/06/24 16:06	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 94 %	Limits: 50-150 %	1	06/06/24 16:06	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		107 %	50-150 %	1	06/06/24 16:06	NWTPH-Gx (MS)		
<b>IDC01-COMP2 (A4F0906-19)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0185</b>		<b>V-15</b>
Gasoline Range Organics	35.0	---	5.17	mg/kg dry	50	06/06/24 16:33	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 96 %	Limits: 50-150 %	1	06/06/24 16:33	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		107 %	50-150 %	1	06/06/24 16:33	NWTPH-Gx (MS)		

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## ANALYTICAL SAMPLE RESULTS

## BTEX Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>IDC01-E20K-S-13.5' (A4F0906-13)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0834</b>		<b>H-01</b>
Benzene	ND	---	11.7	ug/kg dry	50	06/25/24 20:02	5035A/8260D	
Toluene	ND	---	58.6	ug/kg dry	50	06/25/24 20:02	5035A/8260D	
Ethylbenzene	ND	---	29.3	ug/kg dry	50	06/25/24 20:02	5035A/8260D	
Xylenes, total	<b>103</b>	---	87.9	ug/kg dry	50	06/25/24 20:02	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	101 %	Limits:	80-120 %	1	06/25/24 20:02	5035A/8260D
Toluene-d8 (Surr)			96 %		80-120 %	1	06/25/24 20:02	5035A/8260D
4-Bromofluorobenzene (Surr)			101 %		79-120 %	1	06/25/24 20:02	5035A/8260D
<b>IDC01-COMP1 (A4F0906-18)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0185</b>		<b>V-15</b>
Benzene	ND	---	11.4	ug/kg dry	50	06/06/24 16:06	5035A/8260D	
Toluene	ND	---	56.9	ug/kg dry	50	06/06/24 16:06	5035A/8260D	
Ethylbenzene	ND	---	28.4	ug/kg dry	50	06/06/24 16:06	5035A/8260D	
Xylenes, total	ND	---	85.3	ug/kg dry	50	06/06/24 16:06	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	102 %	Limits:	80-120 %	1	06/06/24 16:06	5035A/8260D
Toluene-d8 (Surr)			100 %		80-120 %	1	06/06/24 16:06	5035A/8260D
4-Bromofluorobenzene (Surr)			101 %		79-120 %	1	06/06/24 16:06	5035A/8260D
<b>IDC01-COMP2 (A4F0906-19)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0185</b>		<b>V-15</b>
Benzene	ND	---	10.3	ug/kg dry	50	06/06/24 16:33	5035A/8260D	
Toluene	ND	---	51.7	ug/kg dry	50	06/06/24 16:33	5035A/8260D	
Ethylbenzene	<b>52.2</b>	---	25.9	ug/kg dry	50	06/06/24 16:33	5035A/8260D	<b>M-04</b>
Xylenes, total	<b>490</b>	---	77.6	ug/kg dry	50	06/06/24 16:33	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	103 %	Limits:	80-120 %	1	06/06/24 16:33	5035A/8260D
Toluene-d8 (Surr)			101 %		80-120 %	1	06/06/24 16:33	5035A/8260D
4-Bromofluorobenzene (Surr)			96 %		79-120 %	1	06/06/24 16:33	5035A/8260D

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Project: **R McLean Wilsonville**

Project Number: IDC01DEC.24UC

Project Manager: Steve Omo

**Report ID:****A4F0906 - 07 03 24 0935**

## ANALYTICAL SAMPLE RESULTS

## Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>IDC01-E20K-S-13.5' (A4F0906-13)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0798</b>		<b>H-02</b>
Acenaphthene	ND	---	84.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	R-02
Acenaphthylene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Anthracene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Benz(a)anthracene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Benzo(a)pyrene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Chrysene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Fluoranthene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Fluorene	ND	---	381	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	R-02
Indeno(1,2,3-cd)pyrene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Naphthalene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Phenanthrene	ND	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
<b>Pyrene</b>	<b>298</b>	---	56.1	ug/kg dry	5	06/24/24 17:33	EPA 8270E SIM	
Surrogate: 2-Fluorobiphenyl (Surr)		Recovery: 72 %		Limits: 44-120 %	5	06/24/24 17:33	EPA 8270E SIM	
p-Terphenyl-d14 (Surr)		67 %		54-127 %	5	06/24/24 17:33	EPA 8270E SIM	

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## ANALYTICAL SAMPLE RESULTS

## Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>IDC01-I4-DS-2' (A4F0906-01)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	80.7	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-I4-DM-2' (A4F0906-02)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	84.4	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-I4-DN-2' (A4F0906-03)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	79.0	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-I3-DN-3' (A4F0906-04)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	82.6	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-I3-DS-3' (A4F0906-05)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	84.2	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-I1-DN-2.5' (A4F0906-06)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	79.6	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-E Elbow PL-2' (A4F0906-07)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	85.4	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-PL-3/4N-2' (A4F0906-08)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	81.2	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-PL-3/4M-2' (A4F0906-09)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	78.4	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-PL-2/3-3' (A4F0906-10)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	83.4	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-PL-1/2-2.5' (A4F0906-11)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	81.0	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-E20K-M-15' (A4F0906-12)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	81.2	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-E20K-S-13.5' (A4F0906-13)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		

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## ANALYTICAL REPORT

## AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## ANALYTICAL SAMPLE RESULTS

## Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>IDC01-E20K-S-13.5' (A4F0906-13)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	77.8	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-4K-N-11' (A4F0906-14)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	76.4	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-4K-S-11' (A4F0906-15)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	73.5	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-6K-S-11' (A4F0906-16)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	77.2	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-6K-N-11' (A4F0906-17)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0232</b>		
% Solids	70.2	---	1.00	%	1	06/10/24 06:52	EPA 8000D	
<b>IDC01-COMP1 (A4F0906-18)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0184</b>		
% Solids	90.8	---	1.00	%	1	06/07/24 06:51	EPA 8000D	
<b>IDC01-COMP2 (A4F0906-19)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0184</b>		
% Solids	93.5	---	1.00	%	1	06/07/24 06:51	EPA 8000D	

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Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 24F0213 - EPA 3546 (Fuels) Soil</b>												
<b>Blank (24F0213-BLK1)</b> Prepared: 06/06/24 14:17 Analyzed: 06/06/24 19:14												
<b>NWTPH-HCID</b>												
Gasoline Range Organics	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Diesel Range Organics	ND	---	50.0	mg/kg wet	1	---	---	---	---	---	---	
Oil Range Organics	ND	---	100	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 111 %		Limits: 50-150 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		111 %		50-150 %								

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

<b>Batch 24F0240 - EPA 3546 (Fuels) Soil</b>												
<b>Blank (24F0240-BLK1)</b> Prepared: 06/07/24 10:15 Analyzed: 06/07/24 21:38												
<b>NWTPH-HCID</b>												
Gasoline Range Organics	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Diesel Range Organics	ND	---	50.0	mg/kg wet	1	---	---	---	---	---	---	
Oil Range Organics	ND	---	100	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 92 %		Limits: 50-150 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		91 %		50-150 %								

<b>Duplicate (24F0240-DUP1)</b> Prepared: 06/07/24 10:15 Analyzed: 06/08/24 04:42												
<b>QC Source Sample: IDC01-14-DS-2' (A4F0906-01)</b>												
<b>NWTPH-HCID</b>												
Gasoline Range Organics	ND	---	22.9	mg/kg dry	1	---	ND	---	---	---	30%	
Diesel Range Organics	ND	---	57.3	mg/kg dry	1	---	ND	---	---	---	30%	
Oil Range Organics	ND	---	115	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		Recovery: 92 %		Limits: 50-150 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		87 %		50-150 %								

<b>Duplicate (24F0240-DUP2)</b> Prepared: 06/07/24 10:15 Analyzed: 06/08/24 03:55												
<b>QC Source Sample: IDC01-6K-N-11' (A4F0906-17)</b>												
<b>NWTPH-HCID</b>												
Gasoline Range Organics	ND	---	27.8	mg/kg dry	1	---	ND	---	---	---	30%	
Diesel Range Organics	ND	---	69.4	mg/kg dry	1	---	ND	---	---	---	30%	
Oil Range Organics	ND	---	139	mg/kg dry	1	---	ND	---	---	---	30%	

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25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**

Project Number: IDC01DEC.24UC

Project Manager: Steve Omo

**Report ID:**

A4F0906 - 07 03 24 0935

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24F0240 - EPA 3546 (Fuels)							Soil					
Duplicate (24F0240-DUP2)		Prepared: 06/07/24 10:15   Analyzed: 06/08/24 03:55										
QC Source Sample: IDC01-6K-N-11' (A4F0906-17)												
Surr: o-Terphenyl (Surr)		Recovery: 102 %		Limits: 50-150 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		86 %		50-150 %		"						

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Project Manager: Steve Omo

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## QUALITY CONTROL (QC) SAMPLE RESULTS

## Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24F0171 - EPA 3546 (Fuels)						Soil						
Blank (24F0171-BLK1)		Prepared: 06/06/24 05:05    Analyzed: 06/06/24 08:19										
NWTPH-Dx												
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
Mineral Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 102 %    Limits: 50-150 %    Dilution: 1x										
LCS (24F0171-BS1)		Prepared: 06/06/24 05:05    Analyzed: 06/06/24 08:41										
NWTPH-Dx												
Diesel	120	---	20.0	mg/kg wet	1	125	---	96	38 - 132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 107 %    Limits: 50-150 %    Dilution: 1x										

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Wilsonville, OR 97070

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Project Number: IDC01DEC.24UC

Project Manager: Steve Omo

**Report ID:**

A4F0906 - 07 03 24 0935

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24F0567 - EPA 3546 (Fuels)						Soil						
Blank (24F0567-BLK1)		Prepared: 06/17/24 12:22    Analyzed: 06/17/24 18:21										
NWTPH-Dx												
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 103 %		Limits: 50-150 %		Dilution: 1x						
LCS (24F0567-BS1)		Prepared: 06/17/24 12:22    Analyzed: 06/17/24 18:41										
NWTPH-Dx												
Diesel	110	---	20.0	mg/kg wet	1	125	---	88	38 - 132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 102 %		Limits: 50-150 %		Dilution: 1x						
Duplicate (24F0567-DUP1)		Prepared: 06/17/24 12:22    Analyzed: 06/17/24 22:08										
QC Source Sample: IDC01-14-DN-2' (A4F0906-03)												
NWTPH-Dx												
Diesel	227	---	21.7	mg/kg dry	1	---	134	---	---	52	30%	F-11, Q-04
Oil	ND	---	43.4	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		Recovery: 91 %		Limits: 50-150 %		Dilution: 1x						

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## QUALITY CONTROL (QC) SAMPLE RESULTS

## Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24F0185 - EPA 5035A						Soil						
Blank (24F0185-BLK1)		Prepared: 06/06/24 09:00   Analyzed: 06/06/24 12:02										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	5.00	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 91 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		106 %		50-150 %		"						
LCS (24F0185-BS2)		Prepared: 06/06/24 09:00   Analyzed: 06/06/24 11:35										
NWTPH-Gx (MS)												
Gasoline Range Organics	23.1	---	5.00	mg/kg wet	50	25.0	---	92	80 - 120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 91 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		105 %		50-150 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## BTEX Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 24F0185 - EPA 5035A</b>												
<b>Soil</b>												
<b>Blank (24F0185-BLK1)</b>												
Prepared: 06/06/24 09:00 Analyzed: 06/06/24 12:02												
<u>5035A/8260D</u>												
Benzene	ND	---	10.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
Xylenes, total	ND	---	75.0	ug/kg wet	50	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 103 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>102 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>100 % 79-120 % "</i>												
<b>LCS (24F0185-BS1)</b>												
Prepared: 06/06/24 09:00 Analyzed: 06/06/24 10:41												
<u>5035A/8260D</u>												
Benzene	1050	---	10.0	ug/kg wet	50	1000	---	105	80 - 120%	---	---	
Toluene	976	---	50.0	ug/kg wet	50	1000	---	98	80 - 120%	---	---	
Ethylbenzene	1010	---	25.0	ug/kg wet	50	1000	---	101	80 - 120%	---	---	
Xylenes, total	3010	---	75.0	ug/kg wet	50	3000	---	100	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 102 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>102 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>96 % 79-120 % "</i>												

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## BTEX Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 24F0834 - EPA 5035A</b>												
<b>Soil</b>												
<b>Blank (24F0834-BLK1)</b>												
Prepared: 06/25/24 09:00 Analyzed: 06/25/24 11:54												
<u>5035A/8260D</u>												
Benzene	ND	---	10.0	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	50.0	ug/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	25.0	ug/kg wet	50	---	---	---	---	---	---	
Xylenes, total	ND	---	75.0	ug/kg wet	50	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 102 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>96 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>99 % 79-120 % "</i>												
<b>LCS (24F0834-BS1)</b>												
Prepared: 06/25/24 09:00 Analyzed: 06/25/24 11:00												
<u>5035A/8260D</u>												
Benzene	1060	---	10.0	ug/kg wet	50	1000	---	106	80 - 120%	---	---	
Toluene	1040	---	50.0	ug/kg wet	50	1000	---	104	80 - 120%	---	---	
Ethylbenzene	1080	---	25.0	ug/kg wet	50	1000	---	108	80 - 120%	---	---	
Xylenes, total	3280	---	75.0	ug/kg wet	50	3000	---	109	80 - 120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>												
<i>Recovery: 100 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr)</i>												
<i>101 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr)</i>												
<i>99 % 79-120 % "</i>												

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24F0798 - EPA 3546						Soil						
Blank (24F0798-BLK1)		Prepared: 06/24/24 10:00 Analyzed: 06/24/24 15:01										
EPA 8270E SIM												
Acenaphthene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 78 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		76 %		54-127 %		"						

**LCS (24F0798-BS1)**

Prepared: 06/24/24 10:00 Analyzed: 06/24/24 15:26

**EPA 8270E SIM**

Acenaphthene	691	---	10.0	ug/kg wet	1	800	---	86	40 - 123%	---	---
Acenaphthylene	633	---	10.0	ug/kg wet	1	800	---	79	32 - 132%	---	---
Anthracene	669	---	10.0	ug/kg wet	1	800	---	84	47 - 123%	---	---
Benz(a)anthracene	644	---	10.0	ug/kg wet	1	800	---	81	49 - 126%	---	---
Benzo(a)pyrene	676	---	10.0	ug/kg wet	1	800	---	85	45 - 129%	---	---
Benzo(b)fluoranthene	643	---	10.0	ug/kg wet	1	800	---	80	45 - 132%	---	---
Benzo(k)fluoranthene	690	---	10.0	ug/kg wet	1	800	---	86	47 - 132%	---	---
Benzo(g,h,i)perylene	606	---	10.0	ug/kg wet	1	800	---	76	43 - 134%	---	---
Chrysene	701	---	10.0	ug/kg wet	1	800	---	88	50 - 124%	---	---
Dibenz(a,h)anthracene	711	---	10.0	ug/kg wet	1	800	---	89	45 - 134%	---	---
Fluoranthene	731	---	10.0	ug/kg wet	1	800	---	91	50 - 127%	---	---
Fluorene	657	---	10.0	ug/kg wet	1	800	---	82	43 - 125%	---	---

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## ANALYTICAL REPORT

## AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**

Project Number: IDC01DEC.24UC

Project Manager: Steve Omo

**Report ID:**

A4F0906 - 07 03 24 0935

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24F0798 - EPA 3546							Soil					
LCS (24F0798-BS1)		Prepared: 06/24/24 10:00    Analyzed: 06/24/24 15:26										
Indeno(1,2,3-cd)pyrene	670	---	10.0	ug/kg wet	1	800	---	84	45 - 133%	---	---	
Naphthalene	671	---	10.0	ug/kg wet	1	800	---	84	35 - 123%	---	---	
Phenanthrene	666	---	10.0	ug/kg wet	1	800	---	83	50 - 121%	---	---	
Pyrene	734	---	10.0	ug/kg wet	1	800	---	92	47 - 127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 80 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		75 %		54-127 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Project Number: IDC01DEC.24UC

Project Manager: Steve Omo

**Report ID:****A4F0906 - 07 03 24 0935**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24F0184 - Total Solids (Dry Weight) - 2022							Soil					
Duplicate (24F0184-DUP8)		Prepared: 06/06/24 19:25   Analyzed: 06/07/24 06:51										
QC Source Sample: IDC01-COMP1 (A4F0906-18)												
EPA 8000D												
% Solids	89.0	---	1.00	%	1	---	90.8	---	---	2	10%	

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Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 24F0232 - Total Solids (Dry Weight) - 2022							Soil					
Duplicate (24F0232-DUP1)		Prepared: 06/07/24 08:23			Analyzed: 06/10/24 06:52							
QC Source Sample: IDC01-I4-DS-2' (A4F0906-01)												
EPA 8000D												
% Solids	78.0	---	1.00	%	1	---	80.7	---	---	3	10%	
Duplicate (24F0232-DUP2)		Prepared: 06/07/24 08:23			Analyzed: 06/10/24 06:52							
QC Source Sample: IDC01-I4-DM-2' (A4F0906-02)												
EPA 8000D												
% Solids	84.6	---	1.00	%	1	---	84.4	---	---	0.2	10%	
Duplicate (24F0232-DUP3)		Prepared: 06/07/24 08:23			Analyzed: 06/10/24 06:52							
QC Source Sample: IDC01-I4-DN-2' (A4F0906-03)												
EPA 8000D												
% Solids	78.0	---	1.00	%	1	---	79.0	---	---	1	10%	

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Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## SAMPLE PREPARATION INFORMATION

## Hydrocarbon Identification Screen by NWTPH-HCID

## Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24F0213</u>							
A4F0906-18	Soil	NWTPH-HCID	06/05/24 16:00	06/06/24 15:22	10.18g/10mL	10g/10mL	0.98
A4F0906-19	Soil	NWTPH-HCID	06/05/24 16:05	06/06/24 15:22	10.41g/10mL	10g/10mL	0.96
<u>Batch: 24F0240</u>							
A4F0906-01	Soil	NWTPH-HCID	06/04/24 08:00	06/07/24 10:15	10.06g/10mL	10g/10mL	0.99
A4F0906-02	Soil	NWTPH-HCID	06/04/24 08:15	06/07/24 10:15	10.72g/10mL	10g/10mL	0.93
A4F0906-03	Soil	NWTPH-HCID	06/04/24 08:25	06/07/24 10:15	10.24g/10mL	10g/10mL	0.98
A4F0906-04	Soil	NWTPH-HCID	06/04/24 09:35	06/07/24 10:15	10.3g/10mL	10g/10mL	0.97
A4F0906-05	Soil	NWTPH-HCID	06/04/24 09:30	06/07/24 10:15	10.02g/10mL	10g/10mL	1.00
A4F0906-06	Soil	NWTPH-HCID	06/04/24 10:55	06/07/24 10:15	10.8g/10mL	10g/10mL	0.93
A4F0906-07	Soil	NWTPH-HCID	06/04/24 08:40	06/07/24 10:15	10.69g/10mL	10g/10mL	0.94
A4F0906-08	Soil	NWTPH-HCID	06/04/24 11:25	06/07/24 10:15	10.73g/10mL	10g/10mL	0.93
A4F0906-09	Soil	NWTPH-HCID	06/04/24 11:30	06/07/24 10:15	10.15g/10mL	10g/10mL	0.99
A4F0906-10	Soil	NWTPH-HCID	06/04/24 11:15	06/07/24 10:15	10.51g/10mL	10g/10mL	0.95
A4F0906-11	Soil	NWTPH-HCID	06/04/24 11:10	06/07/24 10:15	10.96g/10mL	10g/10mL	0.91
A4F0906-12	Soil	NWTPH-HCID	06/04/24 17:00	06/07/24 10:15	10.47g/10mL	10g/10mL	0.96
A4F0906-13	Soil	NWTPH-HCID	06/04/24 17:15	06/07/24 10:15	10.87g/10mL	10g/10mL	0.92
A4F0906-14	Soil	NWTPH-HCID	06/05/24 15:40	06/07/24 10:15	10.34g/10mL	10g/10mL	0.97
A4F0906-15	Soil	NWTPH-HCID	06/05/24 15:30	06/07/24 10:15	10.4g/10mL	10g/10mL	0.96
A4F0906-16	Soil	NWTPH-HCID	06/05/24 17:00	06/07/24 10:15	10.54g/10mL	10g/10mL	0.95
A4F0906-17	Soil	NWTPH-HCID	06/05/24 17:10	06/07/24 10:15	10.59g/10mL	10g/10mL	0.94

## Diesel and/or Oil Hydrocarbons by NWTPH-Dx

## Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 24F0171</u>							
A4F0906-18	Soil	NWTPH-Dx	06/05/24 16:00	06/06/24 17:43	11.21g/5mL	10g/5mL	0.89
A4F0906-19RE1	Soil	NWTPH-Dx	06/05/24 16:05	06/06/24 17:43	11.09g/5mL	10g/5mL	0.90
<u>Batch: 24F0567</u>							
A4F0906-03	Soil	NWTPH-Dx	06/04/24 08:25	06/17/24 12:43	11.02g/5mL	10g/5mL	0.91
A4F0906-04	Soil	NWTPH-Dx	06/04/24 09:35	06/17/24 12:43	11.02g/5mL	10g/5mL	0.91
A4F0906-09	Soil	NWTPH-Dx	06/04/24 11:30	06/17/24 12:43	11.18g/5mL	10g/5mL	0.89
A4F0906-10	Soil	NWTPH-Dx	06/04/24 11:15	06/17/24 12:43	11.02g/5mL	10g/5mL	0.91
A4F0906-13RE1	Soil	NWTPH-Dx	06/04/24 17:15	06/17/24 12:43	11.21g/5mL	10g/5mL	0.89

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503-718-2323

ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935**

## SAMPLE PREPARATION INFORMATION

## Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

**Prep: EPA 5035A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<b>Batch: 24F0185</b>							
A4F0906-18	Soil	NWTPH-Gx (MS)	06/05/24 16:00	06/06/24 10:44	5.31g/5mL	5g/5mL	0.94
A4F0906-19	Soil	NWTPH-Gx (MS)	06/05/24 16:05	06/06/24 10:44	5.54g/5mL	5g/5mL	0.90

## BTEX Compounds by EPA 8260D

**Prep: EPA 5035A**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<b>Batch: 24F0185</b>							
A4F0906-18	Soil	5035A/8260D	06/05/24 16:00	06/06/24 10:44	5.31g/5mL	5g/5mL	0.94
A4F0906-19	Soil	5035A/8260D	06/05/24 16:05	06/06/24 10:44	5.54g/5mL	5g/5mL	0.90
<b>Batch: 24F0834</b>							
A4F0906-13	Soil	5035A/8260D	06/04/24 17:15	06/04/24 17:15	7.25g/5mL	5g/5mL	0.69

## Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

**Prep: EPA 3546**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<b>Batch: 24F0798</b>							
A4F0906-13	Soil	EPA 8270E SIM	06/04/24 17:15	06/24/24 10:00	11.46g/5mL	10g/5mL	0.87

## Percent Dry Weight

**Prep: Total Solids (Dry Weight) - 2022**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<b>Batch: 24F0184</b>							
A4F0906-18	Soil	EPA 8000D	06/05/24 16:00	06/06/24 19:25			NA
A4F0906-19	Soil	EPA 8000D	06/05/24 16:05	06/06/24 19:25			NA
<b>Batch: 24F0232</b>							
A4F0906-01	Soil	EPA 8000D	06/04/24 08:00	06/07/24 08:23			NA
A4F0906-02	Soil	EPA 8000D	06/04/24 08:15	06/07/24 08:23			NA
A4F0906-03	Soil	EPA 8000D	06/04/24 08:25	06/07/24 08:23			NA
A4F0906-04	Soil	EPA 8000D	06/04/24 09:35	06/07/24 08:23			NA
A4F0906-05	Soil	EPA 8000D	06/04/24 09:30	06/07/24 08:23			NA
A4F0906-06	Soil	EPA 8000D	06/04/24 10:55	06/07/24 08:23			NA
A4F0906-07	Soil	EPA 8000D	06/04/24 08:40	06/07/24 08:23			NA

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Project: **R McLean Wilsonville**

Project Number: IDC01DEC.24UC

Project Manager: Steve Omo

**Report ID:**

A4F0906 - 07 03 24 0935

## SAMPLE PREPARATION INFORMATION

## Percent Dry Weight

Prep: Total Solids (Dry Weight) - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A4F0906-08	Soil	EPA 8000D	06/04/24 11:25	06/07/24 08:23			NA
A4F0906-09	Soil	EPA 8000D	06/04/24 11:30	06/07/24 08:23			NA
A4F0906-10	Soil	EPA 8000D	06/04/24 11:15	06/07/24 08:23			NA
A4F0906-11	Soil	EPA 8000D	06/04/24 11:10	06/07/24 08:23			NA
A4F0906-12	Soil	EPA 8000D	06/04/24 17:00	06/07/24 08:23			NA
A4F0906-13	Soil	EPA 8000D	06/04/24 17:15	06/07/24 08:23			NA
A4F0906-14	Soil	EPA 8000D	06/05/24 15:40	06/07/24 08:23			NA
A4F0906-15	Soil	EPA 8000D	06/05/24 15:30	06/07/24 08:23			NA
A4F0906-16	Soil	EPA 8000D	06/05/24 17:00	06/07/24 08:23			NA
A4F0906-17	Soil	EPA 8000D	06/05/24 17:10	06/07/24 08:23			NA

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Project Number: **IDC01DEC.24UC**

Project Manager: **Steve Omo**

**Report ID:**

**A4F0906 - 07 03 24 0935**

## QUALIFIER DEFINITIONS

### **Client Sample and Quality Control (QC) Sample Qualifier Definitions:**

#### **Apex Laboratories**

- F-11** The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
- F-26** Result for Diesel (Diesel Range Organics, C12-C18) is due to overlap from Gasoline or a Gasoline Range product.
- H-01** Analyzed outside the recommended holding time.
- H-02** This sample was extracted outside of the recommended holding time.
- M-04** Due to matrix interference, this analyte cannot be accurately quantified. The reported result may contain a high bias.
- Q-04** Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-39** Results for sample duplicate are higher than the sample results. See duplicate results in QC section of the report.
- Q-42** Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- V-15** Sample aliquot was subsampled from the sample container in the laboratory. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

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Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935****REPORTING NOTES AND CONVENTIONS:****Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported.

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

**Detection Limits: Limit of Detection (LOD)**

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

**Reporting Limits: Limit of Quantitation (LOQ)**

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

**Reporting Conventions:**

Basis: Results for soil samples are generally reported on a 100% dry weight basis.  
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")  
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

**QC Source:**

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

**Miscellaneous Notes:**

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" \*\*\* " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

**Blanks:**

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).  
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.

- For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
- For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

Apex Laboratories

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Darrell Auvil, Client Services Manager

**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

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503-718-2323

ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

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Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935****REPORTING NOTES AND CONVENTIONS (Cont.):****Blanks (Cont.):**

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

**Preparation Notes:****Mixed Matrix Samples:****Water Samples:**

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

**Soil and Sediment Samples:**

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

**Sampling and Preservation Notes:**

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Darrell Auvil, Client Services Manager

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**ANALYTICAL REPORT****AMENDED REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: **OR100062****BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: **R McLean Wilsonville**Project Number: **IDC01DEC.24UC**Project Manager: **Steve Omo****Report ID:****A4F0906 - 07 03 24 0935****LABORATORY ACCREDITATION INFORMATION****ORELAP Certification ID: OR100062 (Primary Accreditation)****EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

**Apex Laboratories**

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
--------	----------	--------	---------	--------	---------------

All reported analytes are included in Apex Laboratories' current ORELAP scope.

**Secondary Accreditations**

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

**Subcontract Laboratory Accreditations**

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

**Field Testing Parameters**

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: R McLean Wilsonville

Project Number: IDC01DEC.24UC

Project Manager: Steve Omo

Report ID:

A4F0906 - 07 03 24 0935

APEX LABS		CHAIN OF CUSTODY		COC 1 OF 2	
12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333		Lab # <u>A4F0906</u>			
Company: BB&A Environmental	Project Mgr: Steve Omo	Project Name: R McLean Wilsonville	Project # IDC01DEC.24UC		
Address: 25195 SW Parkway Ave, #207, Wilsonville, OR 97070	Phone: 503-570-9484	Fax:	Email: <u>aroma@bb&amp;aenv.com</u>		
Sampled by: Steve Omo					
Site Location: WA	OR	ANALYSIS REQUEST			
Other:					
SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS
IDC01 - 4 - DS-2'		6/4/2024	8:00	S	3
IDC01 - 4 - DM-2'		6/4/2024	8:15	S	3
IDC01 - 4 - DN-2'		6/4/2024	8:25	S	3
IDC01 - 3 - DN-3'		6/4/2024	9:35	S	3
IDC01 - 3 - DS-3'		6/4/2024	9:30	S	3
IDC01 11 - DN - 2.5'		6/4/2024	10:55	S	3
IDC01 - E Elbow PL-2'		6/4/2024	8:40	S	3
IDC01 - PL-3/4M-2'		6/4/2024	11:25	S	3
IDC01 PL-3/4M-2'		6/4/2024	11:30	S	3
IDC01 - PL-2/3-3'		6/4/2024	11:15	S	3
IDC01 - PL-1/2-2.5'		6/4/2024	11:10	S	3
Normal Turn Around Time (TAT) - 7-10 Business Days					
SPECIAL INSTRUCTIONS:					
EMAIL DRAFT RESULTS					
TAT Requested (circle) 24 HR 48 HR 72 HR 4 DAY 5 DAY Other: _____					
SAMPLES ARE HELD FOR 30 DAYS					
RECEIVED BY: Signature: <u>[Signature]</u>	RECEIVED BY: Signature: <u>[Signature]</u>	RECEIVED BY: Signature: <u>[Signature]</u>	RECEIVED BY: Signature: <u>[Signature]</u>	RECEIVED BY: Signature: <u>[Signature]</u>	RECEIVED BY: Signature: <u>[Signature]</u>
Date: 6/6/2024	Date: 6/6/2024	Date: 6/6/2024	Date: 6/6/2024	Date: 6/6/2024	Date: 6/6/2024
Printed Name: <u>Randal O'Brien, DE</u>	Printed Name: <u>[Signature]</u>	Printed Name: <u>[Signature]</u>	Printed Name: <u>[Signature]</u>	Printed Name: <u>[Signature]</u>	Printed Name: <u>[Signature]</u>
Company: BB&A ENVIRONMENTAL	Company: BB&A ENVIRONMENTAL	Company: BB&A ENVIRONMENTAL	Company: BB&A ENVIRONMENTAL	Company: BB&A ENVIRONMENTAL	Company: BB&A ENVIRONMENTAL

Apex Laboratories

Darrell Auvel, Client Services Manager

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BB&amp;A Environmental - Wilsonville

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

Project: R McLean Wilsonville

Project Number: IDC01DEC.24UC

Project Manager: Steve Omo

Report ID:

A4F0906 - 07 03 24 0935

## APEX LABS COOLER RECEIPT FORM

Client: BB&amp;A Environmental Element WO#: A4 F0906

Project/Project #: R. McLean Wilsonville IDC01DEC.24UC

## Delivery Info:

Date/time received: 4/4/24 @ 800 By: JS

Delivered by: Apex Client ☒ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ OtherFrom USDA Regulated Origin? Yes ☐ No ☒

Cooler Inspection Date/time inspected: 4/4/24 @ 803 By: JS

Chain of Custody included? Yes ☒ No ☐Signed/dated by client? Yes ☒ No ☐Contains USDA Reg. Soils? Yes ☒ No ☒ Unsure (email RegSoils)

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	3.1						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	N						
Ice type: (Gel/Real/Other)	gel						
Condition (In/Out):	In						

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐

Sample Inspection: Date/time inspected: 4/4/24 @ 0825 By: KM

All samples intact? Yes ☒ No ☐ Comments:Bottle labels/COCs agree? Yes ☐ No ☒ Comments: D on IDC01-4K-N-11 reads

6/4/24 on all lots, LOC reads 6/5/24. D on IDC01-4K-S-11 2 1/2 Med. vials.

COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: reads 6/4/24, LOC reads 4/5/24Do VOA vials have visible headspace? Yes ☐ No ☒ NA ☒

Comments:

Water samples: pH checked: Yes ☐ No ☒ NA ☒ pH appropriate? Yes ☐ No ☒ NA ☒ pH ID:

Comments:

Labeled by:

KMS

Witness:

KMS

Cooler Inspected by:

KMS

Form Y-003 R-02

Apex Laboratories

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Page 34 of 34



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
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503-718-2323  
ORELAP ID: OR100062

Wednesday, June 11, 2020

Slidv Omh

BB&i Euvfhumdula. - t f.nhuvf.d

351 95 St Paotway i vd, Sefld #321

t f.nhuvf.d, OR 91212

RE: i 0F2926 - R Mcpdau t f.nhuvf.d - IDC2I DEC60UC

MaT yhe khoenfur i gdApaxhælhædn b t d r æaly aggæcfald yheoxenfudnn aus nlfvd lh ghvfsd l4d  
4fr 4dnLqea.fly ndovfdn lh l4d duvfhumdula. fusenlgyb

Euc.hnds æd l4d æne.ln hkaua.yndn khowhoT hædoi 0F2926, w4fc4 wan æcdfvds xy l4d .axhælhoy hu  
6/6/2020 aL 8:22:22i Mb

Ikyhe 4avd auy qednlhun chucdaufur l4fn æghd.hol4d ndovfdn wd hkd, g.dand kdd. kdd lh chulæLmd xy  
dmæf. aL: [Di\\_evf@agdA-axnchm](mailto:Di_evf@agdA-axnchm), hoxy g4hud aL527-1l 8-3737b

P.dand uhld: i .. namg.dn wf.. xd sfngnhds hkwfl4fu 72 sayn hknamg.d æcdfgl, eu.dnn gæhoææur dmduln  
4avd xddu masdb

Chh.doRdcdfgLUkhamalhu
<u>i ccdglax.d RdcdfgLUkhamalhu æd fn .dnn l4au, hodqea. lh, 6 sdr C (uhLkhdzu), hoæcdfvds hu fcd l4d namd say an namg.fur b</u> (Sdd Chh.doRdcdfgLUkhamalhu khowhoT)
<u>Ddæae.LChh.do 7b sdr C</u>

MaT Ffua. Rdghd.fn l4d hkdæ. vdænfhu hkl4d sala æne.ln khol4fn namg.d nexmfnnhu, eu.dnn negdædsds xy  
a nexndqeduL. æxd.ds æmdusds æghdb  
i .. hl4dosd.fvdæx.dn sddvds kdm l4fn sala, fuc.esfur E.dclhuvc Dala Dd.fvdæx.dn (EDDn), CpP-.fTd kdmn,  
c.fduLæqednlds nemmay n4ddln, aus a.. hl4doghsecln æd chunfsdæds ndchusay lh l4fn æghdb



AsTg LmæNæNf

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25195 SW Parkway Ave, Suite #207  
Wilsonville, OR 97070

PN3In: **R McLean Wilsonville**  
PN3In, 4 rj pTN IDC01DEC.24UC  
PN3In, S MMTN Steve Omo

**Report ID:**  
A4F0906 - 06 11 24 1216

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
IDC01-COMP1	A4F0906-18	Soil	06/05/24 16:00	06/06/24 08:00
IDC01-COMP2	A4F0906-19	Soil	06/05/24 16:05	06/06/24 08:00

As Tg LMxMKNft

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DMNAr elav dTi, CInft S MMTN

PMT1 x01f



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PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MMTN Steve Omo

**Report ID:****A4F0906 - 06 11 24 1216**

## ANALYTICAL SAMPLE RESULTS

## Hydrocarbon Identification Screen by NWTPH-HCID

Ai MnT	CMJ sāl Rlra	DT,Tn,ixi Llj l,	RTsxNli c Llj l,	d i l,t	Dlar,ixi	DMT Ai Mn Ty	S T,2xy Rlch	4 x,Tt
IDC01-COMP1 (A4F0906-18)			Matrix: Soil			Batch: 24F0213		
HMxai TRMcTONMInt	4 D	WW	1bHJ	j cz' c yhn	b	fUfUz0 16:00	4 8 9Pk Wv ID	
DIrTaRMcTONMInt	4 D	WW	-0lb	j cz' c yhn	b	fUfUz0 16:00	4 8 9Pk Wv ID	
OlaRMcTONMInt	DET	WW	bfG	j cz' c yhn	b	fUfUz0 16:00	4 8 9Pk Wv ID	
Surrogate: o-Terphenyl (Surr)		Recovery: 89 %		Limits: 50-150 %	1	06/06/24 23:44	NWTPH-HCID	
4-Bromofluorobenzene (Surr)		89 %		50-150 %	1	06/06/24 23:44	NWTPH-HCID	
IDC01-COMP2 (A4F0906-19)			Matrix: Soil			Batch: 24F0213		
HMxai TRMcTONMInt	4 D	WW	1fHJ	j cz' c yhn	b	fUf7z0 ff:f-	4 8 9Pk Wv ID	
DIrTaRMcTONMInt	4 D	WW	-bf0	j cz' c yhn	b	fUf7z0 ff:f-	4 8 9Pk Wv ID	
OlaRMcTONMInt	4 D	WW	bf6	j cz' c yhn	b	fUf7z0 ff:f-	4 8 9Pk Wv ID	
Surrogate: o-Terphenyl (Surr)		Recovery: 95 %		Limits: 50-150 %	1	06/07/24 00:05	NWTPH-HCID	
4-Bromofluorobenzene (Surr)		95 %		50-150 %	1	06/07/24 00:05	NWTPH-HCID	

AsTg LMxNMNf

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PN3In, S MMTN Steve Omo

**Report ID:****A4F0906 - 06 11 24 1216**

## ANALYTICAL SAMPLE RESULTS

## Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Ai MnT	CMJ sāl RTtra	DT,Tn,ixi Llj l,	RTsxnli c Llj l,	d i l,t	Dlar,ixi	DMT Ai Mn Ty	S T,2xy RTch	4 x,Tt
IDC01-COMP1 (A4F0906-18)				Matrix: Soil		Batch: 24F0171		
DI/Ta	4 D	WW	b5HJ	j cz/ c yhn	b	fUfUz10 1b:01	4 8 9Pk Wdg	
Oil	43.4	WW	65I6	j cz/ c yhn	b	fUfUz10 1b:01	4 8 9Pk Wdg	
Surrogate: o-Terphenyl (Surr)		Recovery: 89 %		Limits: 50-150 %	1	06/06/24 21:42	NWTPH-Dx	
IDC01-COMP2 (A4F0906-19RE1)				Matrix: Soil		Batch: 24F0171		
DI/Ta	4 D	WW	b5I6	j cz/ c yhn	b	fUf7z10 fG1-	4 8 9Pk Wdg	FWU
Ola	4 D	WW	6GHJ	j cz/ c yhn	b	fUf7z10 fG1-	4 8 9Pk Wdg	
Surrogate: o-Terphenyl (Surr)		Recovery: 96 %		Limits: 50-150 %	1	06/07/24 08:25	NWTPH-Dx	

AsTg LMxMKNft

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DMNAr elav dTi, CInInft S MMTN

PMT0 xo1f



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PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MMTN Steve Omo

**Report ID:****A4F0906 - 06 11 24 1216**

## ANALYTICAL SAMPLE RESULTS

## Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Ai MnT	CMJ s aT RTra	DT,Tn, lxi Llj l,	RTs xNli c Llj l,	d i l,t	Dlar , lxi	DMT Ai Mn Ty	S T,2xy RTch	4 x, Tt
<b>IDC01-COMP1 (A4F0906-18)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0185</b>		<b>V-15</b>
HMxai TRMctONMInt	4 D	WW	-H5	j cz' c yhn	-f	fUfU0 bUfU	4 8 9Pk Wg (S C)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 94 %	Limits: 50-150 %	1	06/06/24 16:06	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			107 %	50-150 %	1	06/06/24 16:06	NWTPH-Gx (MS)	
<b>IDC01-COMP2 (A4F0906-19)</b>				<b>Matrix: Soil</b>		<b>Batch: 24F0185</b>		<b>V-15</b>
Gasoline Range Organics	35.0	WW	-lb7	j cz' c yhn	-f	fUfU0 bU66	4 8 9Pk Wg (S C)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 96 %	Limits: 50-150 %	1	06/06/24 16:33	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			107 %	50-150 %	1	06/06/24 16:33	NWTPH-Gx (MS)	

As Tg LMxMKNft

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DMNa Ar elav d'li, CInft S MMTN

PMT- x01f



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PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MMTN Steve Omo

**Report ID:****A4F0906 - 06 11 24 1216**

## ANALYTICAL SAMPLE RESULTS

## BTEX Compounds by EPA 8260D

Ai MnT	CMJ sāl RTtra	DT,Tn,ixi Llj l,	RTsxNli c Llj l,	d i l,t	Dlar ,ixi	DMT Ai Mn Ty	S T,2xy RTch	4 x,Tt
<b>IDC01-COMP1 (A4F0906-18)</b>		<b>Matrix: Soil</b>			<b>Batch: 24F0185</b>		<b>V-15</b>	
BTi . Ti T	4 D	WW	bbf0	r cz/ c yhn	-f	fUfU0 bUfU	-f6- AAGUFD	
9xa Ti T	4 D	WW	- U5	r cz/ c yhn	-f	fUfU0 bUfU	-f6- AAGUFD	
E,2napTi . Ti T	4 D	WW	1G0	r cz/ c yhn	-f	fUfU0 bUfU	-f6- AAGUFD	
Xnāli Rt u,x,M	4 D	WW	G-16	r cz/ c yhn	-f	fUfU0 bUfU	-f6- AAGUFD	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %	1	06/06/24 16:06	5035A/8260D	
Toluene-d8 (Surr)		100 %		80-120 %	1	06/06/24 16:06	5035A/8260D	
4-Bromofluorobenzene (Surr)		101 %		79-120 %	1	06/06/24 16:06	5035A/8260D	
<b>IDC01-COMP2 (A4F0906-19)</b>		<b>Matrix: Soil</b>			<b>Batch: 24F0185</b>		<b>V-15</b>	
BTi . Ti T	4 D	WW	bf16	r cz/ c yhn	-f	fUfU0 bU66	-f6- AAGUFD	
9xa Ti T	4 D	WW	- bf7	r cz/ c yhn	-f	fUfU0 bU66	-f6- AAGUFD	
Ethylbenzene	52.2	WW	1-16	r cz/ c yhn	-f	fUfU0 bU66	-f6- AAGUFD	M-04
Xylenes, total	490	WW	77HU	r cz/ c yhn	-f	fUfU0 bU66	-f6- AAGUFD	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %	1	06/06/24 16:33	5035A/8260D	
Toluene-d8 (Surr)		101 %		80-120 %	1	06/06/24 16:33	5035A/8260D	
4-Bromofluorobenzene (Surr)		96 %		79-120 %	1	06/06/24 16:33	5035A/8260D	

As Tg LMxMKNft

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DMNAr elav d'Ti, CInInft S MMTN

PMTUxo1f



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PN3In, S MMTN Steve Omo

**Report ID:**

**A4F0906 - 06 11 24 1216**

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Ai MnT	CMj sāl RTr a	DT,Tn, lxi Llj l,	RTs xNli c Llj l,	d i l,t	Dlar , lxi	DMT Ai Mn Ty	S T,2xy RTh	4 x, Tt
IDC01-COMP1 (A4F0906-18)			Matrix: Soil			Batch: 24F0184		
% Solids	90.8	WW	blff	%	b	fUf7zl0 fU- b	EPA GffD	
IDC01-COMP2 (A4F0906-19)			Matrix: Soil			Batch: 24F0184		
% Solids	93.5	WW	blff	%	b	fUf7zl0 fU- b	EPA GffD	

AsTg LMxNMNf

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DMNaAr elav dTi, CInInft S MMTN

PM7 x01f



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PN3In, S MMTN Steve Omo

**Report ID:**  
A4F0906 - 06 11 24 1216

QUALITY CONTROL (QC) SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Ai MnT	RTra	DT,Tn,ixi Llj l,	RTsxNli c Llj l,	d i l,t	Dlar,ixi	CsI/ T Aj xri,	Cxr NIT RTra	% REv	Llj l,t	RPD	RPD Llj l,	4 x,Tt
Batch 24F0213 - EPA 3546 (Fuels)						Soil						
Blank (24F0213-BLK1)		PNs Mty: fUfUd0 b0:b7 Ai Mn Ty: fUfUd0 b5:b0										
NWTPH-HCID												
HMxd i TRMcTONMInt	4 D	WW	lfhf	j cz/ c wT,	b	WW	WW	WW	WW	WW	WW	WW
DIIt TaRMcTONMInt	4 D	WW	-lfhf	j cz/ c wT,	b	WW	WW	WW	WW	WW	WW	WW
OlaRMcTONMInt	4 D	WW	bff	j cz/ c wT,	b	WW	WW	WW	WW	WW	WW	WW
Surr: o-Terphenyl (Surr)		Recovery: 111 %		Limits: 50-150 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		111 %		50-150 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

AsTg LMpXNKNf

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503-718-2323

ORELAP ID: OR100062

**BB&A Environmental - Wilsonville**

25195 SW Parkway Ave, Suite #207

Wilsonville, OR 97070

PN3In: **R McLean Wilsonville**

PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MMTN Steve Omo

**Report ID:****A4F0906 - 06 11 24 1216**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Ai MnT	RTra	DT, Th, Lxi Llj l,	RTs x Nli c Llj l,	d i l, t	Dlar, lxi	CsI/ T Aj xri,	Cxr NIT RTra	% REv	Llj l, t	RPD	RPD Llj l,	4 x, Tt
Batch 24F0171 - EPA 3546 (Fuels)						Soil						
Blank (24F0171-BLK1)		PNs Mty: fUfUz0 f- :f- Ai Mn Ty: fUfUz0 fGb5										
NWTPH-Dx												
DI T Ta	4 D	WW	1fHf	j cz/ c wT,	b	WW	WW	WW	WW	WW	WW	WW
Ola	4 D	WW	0fHf	j cz/ c wT,	b	WW	WW	WW	WW	WW	WW	WW
S li T M Ola	4 D	WW	0fHf	j cz/ c wT,	b	WW	WW	WW	WW	WW	WW	WW
Surr: o-Terphenyl (Surr)		Recovery: 102 % Limits: 50-150 % Dilution: 1x										
LCS (24F0171-BS1)		PNs Mty: fUfUz0 f- :f- Ai Mn Ty: fUfUz0 fG0b										
NWTPH-Dx												
DI T Ta	b1f	WW	1fHf	j cz/ c wT,	b	b1-	WW	5U	6GW61%	WW	WW	WW
Surr: o-Terphenyl (Surr)		Recovery: 107 % Limits: 50-150 % Dilution: 1x										

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

As Tg LMx MKNft

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

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PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MMTN Steve Omo

**Report ID:****A4F0906 - 06 11 24 1216**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Ai MnT	RTra	DT, Tn, lxi Llj l,	RTs xNli c Llj l,	d i l, t	Dlar, lxi	CsI/ T Aj xri ,	Cxr NiT RTra	% REv	% REv Llj l, t	RPD	RPD Llj l,	4 x, Tt
Batch 24F0185 - EPA 5035A						Soil						
Blank (24F0185-BLK1)		PNs Mty: fUfUd0 f5:ff Ai Mn Ty: fUfUd0 b1:f1										
NWTPH-Gx (MS)												
HMxdi TRMcTONMInt	4 D	WW	-Hff	j cz/ c wT,	-f	WW	WW	WW	WW	WW	WW	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 91 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		106 %		50-150 %		"						
LCS (24F0185-BS2)		PNs Mty: fUfUd0 f5:ff Ai Mn Ty: fUfUd0 bb:6-										
NWTPH-Gx (MS)												
HMxdi TRMcTONMInt	16lb	WW	-Hff	j cz/ c wT,	-f	1-Hf	WW	51	Gf Wb1f%	WW	WW	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 91 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		105 %		50-150 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

As Tg LMxMKNft

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PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MMTN Steve Omo

**Report ID:****A4F0906 - 06 11 24 1216**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## BTEX Compounds by EPA 8260D

Ai MnT	RTra	DT, Th, lxi Llj l,	RTsxnli c Llj l,	d i l, t	Dlar, lxi	CsI/ T Aj xri,	Cxr NiT RTra	% REv	% REv Llj l, t	RPD	RPD Llj l,	4 x, Tt
Batch 24F0185 - EPA 5035A						Soil						
Blank (24F0185-BLK1)		PNsMty: fUfUz0 f5:ff Ai Mn Ty: fUfUz0 bl:f1										
5035A/8260D												
B Ti . Ti T	4 D	WW	bfhf	rcz' c wT,	-f	WW	WW	WW	WW	WW	WW	
9xar' Ti T	4 D	WW	-fhf	rcz' c wT,	-f	WW	WW	WW	WW	WW	WW	
E,2mpTi . Ti T	4 D	WW	1-fh	rcz' c wT,	-f	WW	WW	WW	WW	WW	WW	
Xnili Ttu,x, M	4 D	WW	7-fh	rcz' c wT,	-f	WW	WW	WW	WW	WW	WW	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		79-120 %		"						
LCS (24F0185-BS1)		PNsMty: fUfUz0 f5:ff Ai Mn Ty: fUfUz0 bf:0b										
5035A/8260D												
B Ti . Ti T	bf-f	WW	bfhf	rcz' c wT,	-f	bfff	WW	bf-	Gf Wb1f%	WW	WW	
9xar' Ti T	57U	WW	-fhf	rcz' c wT,	-f	bfff	WW	5G	Gf Wb1f%	WW	WW	
E,2mpTi . Ti T	bfbf	WW	1-fh	rcz' c wT,	-f	bfff	WW	bfb	Gf Wb1f%	WW	WW	
Xnili Ttu,x, M	6fbf	WW	7-fh	rcz' c wT,	-f	6fff	WW	bff	Gf Wb1f%	WW	WW	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		79-120 %		"						

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

As Tg LMpxMKNft

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25195 SW Parkway Ave, Suite #207  
Wilsonville, OR 97070

PN3In: **R McLean Wilsonville**  
PN3In, 4 rj pTN IDC01DEC.24UC  
PN3In, S MMTN Steve Omo

**Report ID:**  
A4F0906 - 06 11 24 1216

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

AI MnT	RTtra	DT,Tn,ixi Llj l,	RTsxNli c Llj l,	d i l,t	Dlar ,ixi	CsI/ T Aj xri ,	Cxr NiT RTtra	% REv	% REv Llj l,t	RPD	RPD Llj l,	4 x,Tt
--------	-------	---------------------	---------------------	---------	-----------	--------------------	------------------	-------	------------------	-----	---------------	--------

Batch 24F0184 - Total Solids (Dry Weight) - 2022

Soil

Duplicate (24F0184-DUP8) PNsMty: fUfUzlo b5:1- AI Mn Ty: fUf7zlo fU- b

QC Source Sample: IDC01-COMP1 (A4F0906-18)

EPA 8000D

% Cxdt	89.0	WW	blf f	%	b	WW	5fIG	WW	WW	1	bf%
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AsTg LMxNMNt

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DMNaAr elav dTi, CInIt S MMTN

PMtb1 xo1f



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## SAMPLE PREPARATION INFORMATION

## Hysdcaoxhu Isdufcalhu Scædu xy Nt WPH-HCID

**Podg: EPI 7506 (Fed.n)**

LM 4 rj pTN	S MNg	S T,2xy	CMJ salfy	PNsNNy	CMJ salf	DTæMa	RL PNs
Balc4: 30F23l 7					Ii l,IMæFli M	Ii l,IMæFli M	FM,xN
A0Ff5fUW6	Cxla	4 8 9Pk WvID	fUæf-zl0 bUff	fUæfUæ0 b-:11	bfbGææfj L	bfcæfj L	f15G
A0Ff5fUW5	Cxla	4 8 9Pk WvID	fUæf-zl0 bUf-	fUæfUæ0 b-:11	bfb0bcæfj L	bfcæfj L	f15U

## Dfdnd. aus/hoOf. Hysdcaoxhun xy Nt WPH-DA

**Podg: EPI 7506 (Fed.n)**

LM 4 rj pTN	S MNg	S T,2xy	CMJ salfy	PNsNNy	CMJ salf	DTæMa	RL PNs
Balc4: 30F21 1L					Ii l,IMæFli M	Ii l,IMæFli M	FM,xN
A0Ff5fUW6	Cxla	4 8 9Pk Wdg	fUæf-zl0 bUff	fUæfUæ0 b7:06	bblhbcæz-j L	bfcæz-j L	f15G
A0Ff5fUW5REb	Cxla	4 8 9Pk Wdg	fUæf-zl0 bUf-	fUæfUæ0 b7:06	bblf5cæz-j L	bfcæz-j L	f15f

## Ganh,fud Raur d Hysdcaoxhun (Bduzdud Læher 4 Nag4Læa,dud) xy Nt WPH-GA

**Podg: EPI 5275i**

LM 4 rj pTN	S MNg	S T,2xy	CMJ salfy	PNsNNy	CMJ salf	DTæMa	RL PNs
Balc4: 30F21 85					Ii l,IMæFli M	Ii l,IMæFli M	FM,xN
A0Ff5fUW6	Cxla	4 8 9Pk Wlg (S C)	fUæf-zl0 bUff	fUæfUæ0 bf:00	-l6bcæz-j L	-cæz-j L	f150
A0Ff5fUW5	Cxla	4 8 9Pk Wlg (S C)	fUæf-zl0 bUf-	fUæfUæ0 bf:00	-læ0cæz-j L	-cæz-j L	f15f

## BWEX Chmgheusn xy EPI 8362D

**Podg: EPI 5275i**

LM 4 rj pTN	S MNg	S T,2xy	CMJ salfy	PNsNNy	CMJ salf	DTæMa	RL PNs
Balc4: 30F21 85					Ii l,IMæFli M	Ii l,IMæFli M	FM,xN
A0Ff5fUW6	Cxla	-f6-AæGluæD	fUæf-zl0 bUff	fUæfUæ0 bf:00	-l6bcæz-j L	-cæz-j L	f150
A0Ff5fUW5	Cxla	-f6-AæGluæD	fUæf-zl0 bUf-	fUæfUæ0 bf:00	-læ0cæz-j L	-cæz-j L	f15f

## PdæduLDoy t dfr 4L

**Podg: Væla. Sh.fsn (Doy t dfr 4L) - 3233**

LM 4 rj pTN	S MNg	S T,2xy	CMJ salfy	PNsNNy	CMJ salf	DTæMa	RL PNs
Balc4: 30F21 80					Ii l,IMæFli M	Ii l,IMæFli M	FM,xN
A0Ff5fUW6	Cxla	EPA GffæD	fUæf-zl0 bUff	fUæfUæ0 b5:1-			4 A
A0Ff5fUW5	Cxla	EPA GffæD	fUæf-zl0 bUf-	fUæfUæ0 b5:1-			4 A

AsTg LMæxNMæNfæ

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PN3In: **R McLean Wilsonville**

PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MMTN Steve Omo

**Report ID:**

**A4F0906 - 06 11 24 1216**

**REPORTING NOTES AND CONVENTIONS (Cont.):**

**Blanks (Cont.):**

CM salNtr at aMcTy wl,2 MB' xNBWl' Q MdTNMT'sx,Ti,IMplMTy 2lc lo,2TtM salNtr at Mf alt,2M,Ti,lj T,2TaleTaoxri y li  
,2TpaM/ oxNi xNMIn MMTTuxNalt,2M deT,lj T,2TaleTaoxri y li,2TpaM/ oxNiNMIn MMTTth  
'B' My 'BWl' Q MdNMTi t Mf xi amMs dTy,x tM salNtr at yT,Tn,Ty MxeT,2TRTs xNli c LTeTah

**Preparation Notes:**

S lgTy S MNg CM salt:

8 MINCM salt:

8 MINCM salt nxi,Mi li c tlei ldnM, M xri,t xotTylj Ti, Mf yTnM,Ty xNtTs MMTy sNxN,x Tg,M,ixi uMly xi am,2TwMINSxNli MMTn Tyu  
ri altt x,2TNwtTyINn,Ty pm,2TndTi,h

CxlaMly CTylj Ti, CM salt:

CxlaMly CTylj Ti, tM salt nxi,Mi li c tlei ldnM, M xri,t xowMINTyTnM,Ty sNxN,x Tg,M,ixi uMly xi am,2Ttxdy sNxNli MMTn Tyur i altt  
x,2TNwtTyINn,Ty pm,2TndTi,h

**Sampling and Preservation Notes:**

v TNMf Ncr aKkns NcNj tutrn2 M 4 Mxi MPxar,M, DltN2MTEdj li Mxi Cnt,Tj (4 PDEC)uNQ IN,2MM,lel,lT trn2 M tM sal daMxi  
(oxNlttxaeTy j T,MuxN2xs2xts2Mfu2TgMMli, n2Nj lrj uT,nh) Mly,Ti,li c xot2xN2xay MMTnT (sk uDlttxaeTy OgnT uT,nh) pTs TNxj Ty li  
,2TdTy (xi M,T) wl,2li M2xN,lj Twli yxwhli Mf y,lxi utM salj MNg tsI/ T MNTQ INy oxNtj TMMntTuMly trodnli, exarj Tj rt, pT  
sNelyTyuMly plapalt,Tts Thldn q v NQ T,Tyulo,2lt It NQ INy hAa Ncr aKkns TNj l,t t2xray pTNelTwTy,x Ti trN,2M,2TtTNQ INj Ti,t M  
pTli c j T,h

DMMTN t2xray pTMMxow2ln2 Ncr aMxi t sTNM,x,2TtM salt,2Tmtrpj l,oxNt,li chloNMTy tM sal nxaIn,ixi M,lel,lT Mf i x,  
MsNcTy oxNts Mlnr aNcr aKkns NcNj uNtr at t2xray pTnxi tlyTNy Ti,lj Mf thAs Tg LMPxNKNRt wlaQ Mcom,2Rt MMTnT Mnxlyli c,x,2T  
j xt,t,li cTi,NQ INj Ti,tu2xwTeTNtr at oxNtM salt,2MMNT oxNi xi Ncr aKkns rNxtTj j MhpTMTs,Mpalh

CM salt,2M2MTPTi daTNy Mly sNtTNy MAs Tg LMPxNKNRt sTNdTi,NQ T,Mf at,Ty li,2TsNs MMTi tTh,ixi xo,2TNs xNwl,2,TyMf  
Mly,lj TxodaMxi at,Tyh

As Tg LMPxNKNRt j M,Mi t yT,MfTy NhxNt xi tM sal NtThs,uli nar yli c naTi, aPTaeTNdnMxi unxxaIN,Tj sTNMf NutM sal sNtTNMxi u2xay  
,lj Tnxj salMnTMy dTy daMxi hDMMT Q MdTy M i ThTtMhuMly,2Tav/ xoQ MdNMTi li ylnMlt nxj salMnTwl,2 NQ INy sMM T,Tnh

As Tg LMPxNKNRt

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DMNTaAr elav dTi, CInlt S MMTN

PM TbUxo lf



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PN3In, 4 rj pTN **IDC01DEC.24UC**  
PN3In, S MMTN **Steve Omo**

**Report ID:**  
**A4F0906 - 06 11 24 1216**

LABORATORY ACCREDITATION INFORMATION

**ORELAP Certification ID: OR100062 (Primary Accreditation)**

**EPA ID: OR01039**

Aaj T,2xyt Mly MMTN NsxNTy xj wxN sTNj Ty MAsTg LpxNkNt Mli naryTy xi AsTg LpxNkNt' ORELAP  
CnxsTxo v Tndn Mxi uwl,2,2T TgnTs,ixi xoMmMTN(t) dt, Ty pTaw:

**Apex Laboratories**

S MNg	Ai Mnt	94 I_ID	Ai Mnt	94 I_ID	AnnNyl,Mxi
AaNsxNTy MMTN Mli naryTy li AsTg LpxNkNt' nrNTi, ORELAP tnxTh					

**Secondary Accreditations**

AsTg LpxNkNt Mxj Mi,Mit NnlsNnMNTyl,Mxi wl,2ixi W4It,Mit (8 M2li c,xi DOE)uMwTAM  
x,2Tnt,Mtts Tndn MNTyl,Mxi tix, dt, Ty 2Tnh

**Subcontract Laboratory Accreditations**

Crpxi ,M,Ty yMNT xr,tlyTxoAsTg LpxNkNt' CnxsTxoAnnNyl,Mxi h  
PaMTtTT,2T Crpxi ,M, LpxNkNtNsxN xNcr ayT,MtuxNxi ,M, nkrNP3In, S MMTN xN'li xNj Mxi h

**Field Testing Parameters**

Rttrat xNFTay 9Tt,Ty yMNT skeyTy pm,2TnaTi, xNtj salNiMly xaxr,tlyTxoAsTg LpxNkNt' CnxsTxo  
AnnNyl,Mxi h

AsTg LpxNkNt

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PN3In, 4 rj pTN IDC01DEC.24UC

PN3In, S MIMTN Steve Omo

Report ID:

A4F0906 - 06 11 24 1216

APEX LABS		CHAIN OF CUSTODY		COC 1 OF 2	
12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333		Lab # <u>A4F0906</u>			
Company: BB&A Environmental	Project Mgr: Steve Omo	Project Name: R McLean Wilsonville	Project #: IDC01DEC.24UC		
Address: 25195 SW Parkway Ave, #207, Wilsonville, OR 97070	Phone: 503-570-9484	Fax:	Email: <u>aroma@bb&amp;aenv.com</u>		
Sampled by: Steve Omo					
Site Location: WA OR	ANALYSIS REQUEST				
Other:					
SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS
IDC01 - 4 - DS-2'	6/4/2024	8:00	S	3	
IDC01 - 4 - DM-2'	6/4/2024	8:15	S	3	
IDC01 - 4 - DN-2'	6/4/2024	8:25	S	3	
IDC01 - 3 - DN-3'	6/4/2024	9:35	S	3	
IDC01 - 3 - DS-3'	6/4/2024	9:30	S	3	
IDC01 11 - DN - 2.5'	6/4/2024	10:55	S	3	
IDC01 - E Elbow PL-2'	6/4/2024	8:40	S	3	
IDC01 - PL-3/4M-2'	6/4/2024	11:25	S	3	
IDC01 PL-3/4M-2'	6/4/2024	11:30	S	3	
IDC01 - PL-2/3-3'	6/4/2024	11:15	S	3	
IDC01 - PL-1/2-2.5'	6/4/2024	11:10	S	3	
Normal Turn Around Time (TAT) - 7-10 Business Days					
SPECIAL INSTRUCTIONS:					
EMAIL DRAFT RESULTS					
TAT Requested (circle) 24 HR 48 HR 72 HR 4 DAY 5 DAY Other: _____					
SAMPLES ARE HELD FOR 30 DAYS					
RECEIVED BY: Signature: <u>[Signature]</u>	RECEIVED BY: Signature: <u>[Signature]</u>				
Date: 6/6/2024	Date:				
Printed Name: <u>Randal O'Brien, DE</u>	Printed Name: <u>[Signature]</u>				
Time: <u>11:15</u>	Time:				
Company: BB&A ENVIRONMENTAL	Company:				

AsTg LMPxN&amp;Nf

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DMN&amp;Arelav d'li, CInInft S MIMTN

PM1TbGxo1f







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PN3In, S MMTN Steve Omo

**Report ID:**

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**APEX LABS COOLER RECEIPT FORM**Client: BB&A Environmental Element WO#: A4 F0906Project/Project #: R. McLean Wilsonville IDC01DEC.24UC**Delivery Info:**Date/time received: 4/4/24 @ 800 By: JSDelivered by: Apex ☒ Client ☒ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐From USDA Regulated Origin? Yes ☐ No ☒**Cooler Inspection** Date/time inspected: 4/4/24 @ 803 By: JSChain of Custody included? Yes ☒ No ☐Signed/dated by client? Yes ☒ No ☐Contains USDA Reg. Soils? Yes ☒ No ☒ Unsure (email RegSoils) ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>3.1</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>gel</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) Possible reason why: OB 616Green dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐**Sample Inspection:** Date/time inspected: 4/4/24 @ 0825 By: kmAll samples intact? Yes ☒ No ☐ Comments: OB 616Bottle labels/COCs agree? Yes ☐ No ☒ Comments: Don on IDC01-4K-N-11 reads6/4/24 on all lots, loc reads 6/5/24. Don on IDC01-4K-S-11 2 1/2 Med. vials.COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: reads 6/4/24, loc reads 4/5/24Do VOA vials have visible headspace? Yes ☐ No ☒ NA ☒Comments: OB 616Water samples: pH checked: Yes ☐ No ☒ NA ☒ pH appropriate? Yes ☐ No ☒ NA ☒ pH ID: OB 616Comments: OB 616

Labeled by:

km

Witness:

km

Cooler Inspected by:

km

Form Y-003 R-02

As Tg LMPxN&amp;Nf

Donald Wilsonville

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

DMN&amp;A elav d'li, CInInIt S MMTN

PMT1f x01f

---

# ATTACHMENT C

Direct Push Probe Logs

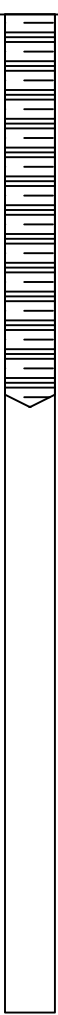
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# PROBE LOG

PAGE 1 OF 1

PROBE NO.: DP-1  
 PROJECT CODE: IDC01DEC.24UC  
 CADD FILE: IDC01-L.DWG  
 PROJECT: INTERSTATE DISTRIBUTION CO.,  
 LOCATION: 10110 RIDDLER ROAD  
 WILSONVILLE, OREGON

TOTAL DEPTH: 10'  
 SURFACE ELEVATION:  
 PROBING METHOD: MACRO CORE  
 PROBED BY: BB&A ENVIRONMENTAL  
 LOGGED BY: STEPHEN OMO  
 DATE COMPLETED: 06/10/24

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	PID	H <sub>2</sub> O LEVEL	LITHOLOGIC DESCRIPTION	LITHOLOGY	DEPTH (feet)	PROBE ABANDONMENT
0	DP1-I2-DN-8.5'	0.0		- GRAVEL (GP): pea gravel		0	
		0.0					
		0.0					
		0.0					
		0.0					
5		0.0				5	
		0.0					
		0.0					
		0.0					
		0.0					
10		0.0		- Silty CLAY (CL): brown, with occasional gravel, slightly plastic, firm, no petroleum odor or staining		10	
		0.0					
15						15	
20						20	
25						25	

## LEGEND

BLS Below Land Surface

NOTES:

NOTE: CLASSIFICATION OF SOILS BASED ON THE UNITED SOILS CLASSIFICATION SYSTEM.



**EUGENE OFFICE**  
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**PORTLAND OFFICE**  
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 ph. 503.570.9484 fax. 503.570.0384




# PROBE LOG

PAGE 1 OF 1

PROBE NO.: DP-2  
 PROJECT CODE: IDC01DEC.24UC  
 CADD FILE: IDC01-L.DWG  
 PROJECT: INTERSTATE DISTRIBUTION CO.,  
 LOCATION: 10110 RIDDLER ROAD  
 WILSONVILLE, OREGON

TOTAL DEPTH: 10'  
 SURFACE ELEVATION:  
 PROBING METHOD: MACRO CORE  
 PROBED BY: BB&A ENVIRONMENTAL  
 LOGGED BY: STEPHEN OMO  
 DATE COMPLETED: 06/10/24

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	PID	H <sub>2</sub> O LEVEL	LITHOLOGIC DESCRIPTION	LITHOLOGY	DEPTH (feet)	PROBE ABANDONMENT
0	DP2-I2-DS-8.5'	0.0		- GRAVEL (GP): pea gravel		0	
		0.0					
		0.0					
		0.0					
		0.0					
5		0.0				5	
		0.0					
		0.0					
		0.0					
		0.0					
10		0.0		- Silty CLAY (CL): brown, with occasional gravel, slightly plastic, firm, no petroleum odor or staining		10	
15						15	
20						20	
25						25	

## LEGEND

BLS Below Land Surface

NOTES:

NOTE: CLASSIFICATION OF SOILS BASED ON THE UNITED SOILS CLASSIFICATION SYSTEM.



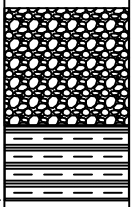
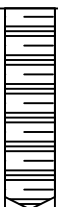
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# PROBE LOG

PAGE 1 OF 1

PROBE NO.: DP-3  
 PROJECT CODE: IDC01DEC.24UC  
 CADD FILE: IDC01-L.DWG  
 PROJECT: INTERSTATE DISTRIBUTION CO.,  
 LOCATION: 10110 RIDDLER ROAD  
WILSONVILLE, OREGON

TOTAL DEPTH: 5'  
 SURFACE ELEVATION: \_\_\_\_\_  
 PROBING METHOD: MACRO CORE  
 PROBED BY: BB&A ENVIRONMENTAL  
 LOGGED BY: STEPHEN OMO  
 DATE COMPLETED: 06/10/24

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	PID	H <sub>2</sub> O LEVEL	LITHOLOGIC DESCRIPTION	LITHOLOGY	DEPTH (feet)	PROBE ABANDONMENT
0	DP3-PL Trench-3'	0.0		- GRAVEL (GP): pea gravel		0	
		0.0					
		0.0					
		0.0		- Silty CLAY (CL): brown, slightly plastic, firm, no petroleum odor or staining			
		0.0					
5		0.0				5	
10						10	
15						15	
20						20	
25						25	

## LEGEND

BLS Below Land Surface

NOTES: \_\_\_\_\_  
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NOTE: CLASSIFICATION OF SOILS BASED ON THE UNITED SOILS CLASSIFICATION SYSTEM.



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# PROBE LOG

PAGE 1 OF 1

PROBE NO.: DP-4  
 PROJECT CODE: IDC01DEC.24UC  
 CADD FILE: IDC01-L.DWG  
 PROJECT: INTERSTATE DISTRIBUTION CO.,  
 LOCATION: 10110 RIDDLER ROAD  
WILSONVILLE, OREGON

TOTAL DEPTH: 18'  
 SURFACE ELEVATION: \_\_\_\_\_  
 PROBING METHOD: MACRO CORE  
 PROBED BY: BB&A ENVIRONMENTAL  
 LOGGED BY: STEPHEN OMO  
 DATE COMPLETED: 06/10/24

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	PID	H <sub>2</sub> O LEVEL	LITHOLOGIC DESCRIPTION	LITHOLOGY	DEPTH (feet)	PROBE ABANDONMENT
0		0.0		- GRAVEL (GM): fill, 3/4"-, silty		0	
		0.0					
		0.0					
		0.0					
		0.0		- GRAVEL (GP): pea gravel			
5		0.0				5	
		0.0					
		0.0					
		0.0					
		0.0					
10		0.0				10	
		0.0					
		0.0					
		0.0					
		0.0					
	DP4-E20K-N-13.5'-14'	0.0		- CLAY (CL) brown & gray, silty, slightly plastic, firm, occasional gravel, no petroleum odor or staining, no groundwater		15	
15		0.0				15	
		0.0					
		0.0					
		0.0					
20						20	
25						25	

## LEGEND

BLS Below Land Surface

NOTES: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

NOTE: CLASSIFICATION OF SOILS BASED ON THE UNITED SOILS CLASSIFICATION SYSTEM.



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# PROBE LOG

PAGE 1 OF 1

PROBE NO.: DP-5  
 PROJECT CODE: IDC01DEC.24UC  
 CADD FILE: IDC01-L.DWG  
 PROJECT: INTERSTATE DISTRIBUTION CO.,  
 LOCATION: 10110 RIDDLER ROAD  
 WILSONVILLE, OREGON

TOTAL DEPTH: 18'  
 SURFACE ELEVATION:  
 PROBING METHOD: MACRO CORE  
 PROBED BY: BB&A ENVIRONMENTAL  
 LOGGED BY: STEPHEN OMO  
 DATE COMPLETED: 06/10/24

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	PID	H <sub>2</sub> O LEVEL	LITHOLOGIC DESCRIPTION	LITHOLOGY	DEPTH (feet)	PROBE ABANDONMENT
0		0.0		- GRAVEL (GM): fill, 3/4"-, silty		0	
		0.0					
		0.0					
		0.0					
		0.0		- GRAVEL (GP): pea gravel			
5		0.0				5	
		0.0					
		0.0					
		0.0					
		0.0					
10		0.0				10	
		0.0					
		0.0					
		0.0					
		0.0					
	DP5-W20K-N-13.5'-14'	0.2		- CLAY (CL) brown & gray, silty, slightly plastic, firm, occasional gravel, no petroleum odor or staining, no groundwater			
15		0.0				15	
		0.0					
		0.0					
		0.0					
20						20	
25						25	

## LEGEND

BLS Below Land Surface

NOTES:

NOTE: CLASSIFICATION OF SOILS BASED ON THE UNITED SOILS CLASSIFICATION SYSTEM.



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# PROBE LOG

PAGE 1 OF 1

PROBE NO.: DP-6  
 PROJECT CODE: IDC01DEC.24UC  
 CADD FILE: IDC01-L.DWG  
 PROJECT: INTERSTATE DISTRIBUTION CO.,  
 LOCATION: 10110 RIDDLER ROAD  
 WILSONVILLE, OREGON

TOTAL DEPTH: 18'  
 SURFACE ELEVATION:  
 PROBING METHOD: MACRO CORE  
 PROBED BY: BB&A ENVIRONMENTAL  
 LOGGED BY: STEPHEN OMO  
 DATE COMPLETED: 06/10/24

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	PID	H <sub>2</sub> O LEVEL	LITHOLOGIC DESCRIPTION	LITHOLOGY	DEPTH (feet)	PROBE ABANDONMENT
0		0.0		- GRAVEL (GM): fill, 3/4"-, silty		0	
		0.0					
		0.0					
		0.0					
		0.0		- GRAVEL (GP): pea gravel			
5		0.0				5	
		0.0					
		0.0					
		0.0					
10		0.0				10	
		0.0					
		0.0					
		0.0					
		0.0					
	DP6-W20K-M-13.5'-14'	0.2		- CLAY (CL) brown & gray, silty, slightly plastic, firm, occasional gravel, no petroleum odor or staining, no groundwater		15	
15		0.0				15	
		0.0					
		0.0					
		0.0					
20						20	
25						25	

## LEGEND

BLS Below Land Surface

NOTES:

NOTE: CLASSIFICATION OF SOILS BASED ON THE UNITED SOILS CLASSIFICATION SYSTEM.



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# PROBE LOG

PAGE 1 OF 1

PROBE NO.: DP-7  
 PROJECT CODE: IDC01DEC.24UC  
 CADD FILE: IDC01-L.DWG  
 PROJECT: INTERSTATE DISTRIBUTION CO.,  
 LOCATION: 10110 RIDDLER ROAD  
 WILSONVILLE, OREGON

TOTAL DEPTH: 20'  
 SURFACE ELEVATION:  
 PROBING METHOD: MACRO CORE  
 PROBED BY: BB&A ENVIRONMENTAL  
 LOGGED BY: STEPHEN OMO  
 DATE COMPLETED: 06/10/24

DEPTH (feet)	SAMPLE IDENTIFICATION AND LAB RESULTS	PID	H <sub>2</sub> O LEVEL	LITHOLOGIC DESCRIPTION	LITHOLOGY	DEPTH (feet)	PROBE ABANDONMENT
0		0.0		- GRAVEL (GM): fill, 3/4"-, silty		0	
		0.0					
		0.0					
		0.0					
		0.0		- GRAVEL (GP): pea gravel			
5		0.0				5	
		0.0					
		0.0					
		0.0					
		0.0					
10		0.0				10	
		0.0					
		0.0					
		0.0					
	DP7-W20K-S-13.5'-14'	0.0		- CLAY (CL) gray, grades into brown, slightly plastic, firm, occasional gravel, slight fuel odor @ 13.5' BLS, no odor or staining below 14', no groundwater		15	
15		4.7					
		0.0					
		0.0					
		0.0					
		0.0					
20		0.0				20	
		0.0					
25						25	

## LEGEND

BLS Below Land Surface

NOTES:

NOTE: CLASSIFICATION OF SOILS BASED ON THE UNITED SOILS CLASSIFICATION SYSTEM.



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---

# ATTACHMENT D

Soil and Fuel/Rinse Water Disposal Receipts

---







Hillsboro Landfill, Inc  
3205 SE Minter Bridge  
Hillsboro, OR, 97123  
Ph: (503)-640-9427

Reprint  
Ticket# 1721862

Customer Name BB AND A ENVIRONMENTAL BB&A E Carrier BB AND A  
Ticket Date 06/19/2024 Vehicle# JUSTIN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0005113  
State Waste Code Gen EPA ID 7506  
Manifest NA  
Destination Grid  
PO  
Profile 1428770R (DIESEL FUEL/FUEL OIL CONTAMINATED SOIL )  
Generator RIDDER ROAD-10110 RIDDER ROAD LLC 10110 SW RIDDER RD WILSONVILLE

	Time	Scale	Operator	Inbound	Gross	
In	06/19/2024 11:07:16	Inbound 1	KSURRATT		Tare	22620 lb
Out	06/19/2024 11:32:44	Outbound	LGILLILA		Net	13100 lb
					Tons	9520 lb
						4.76

Comments

Consumer Comments? We want to know. Please call.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC-	100	4.76	Tons				CLACK-OUT
2 EVC-Energy/Adminis	100		%				CLACK-OUT

\$356.38

Total Tax  
Total Ticket

Driver's Signature



Hillsboro Landfill, Inc  
3205 SE Minter Bridge  
Hillsboro, OR, 97123  
Ph: (503)-640-9427

Reprint  
Ticket# 1721907

Customer Name BB AND A ENVIRONMENTAL BB&A E Carrier BB AND A  
Ticket Date 06/19/2024 Vehicle# JUSTIN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0005113  
State Waste Code Gen EPA ID 7506  
Manifest NA  
Destination Grid  
PO  
Profile 1428770R (DIESEL FUEL/FUEL OIL CONTAMINATED SOIL )  
Generator RIDDER ROAD-10110 RIDDER ROAD LLC 10110 SW RIDDER RD WILSONVILLE

	Time	Scale	Operator	Inbound	Gross	24700 lb
In	06/19/2024 13:42:50	Inbound 2	mmalones2		Tare	13080 lb
Out	06/19/2024 14:00:08	Outbound	LGILLILA		Net	11620 lb
Comments					Tons	5.81

Consumer Comments? We want to know. Please call.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC- 100		5.81	Tons				CLACK-OUT
2 EVC-Energy/Adminis 100			%				CLACK-OUT

\$ 434.99

Total Tax  
Total Ticket

Driver's Signature



Hillsboro Landfill, Inc  
3205 SE Minter Bridge  
Hillsboro, OR, 97123  
Ph: (503)-640-9427

Reprint  
Ticket# 1721925

Customer Name BB AND A ENVIRONMENTAL BB&A E Carrier BB AND A  
Ticket Date 06/19/2024 Vehicle# JUSTIN Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0005113  
State Waste Code Gen EPA ID 7506  
Manifest NA  
Destination Grid  
DO  
Profile 142877OR (DIESEL FUEL/FUEL OIL CONTAMINATED SOIL )  
Generator RIDDER ROAD-10110 RIDDER ROAD LLC 10110 SW RIDDER RD WILSONVILLE

	Time	Scale	Operator	Inbound	Gross	
In	06/19/2024 15:46:19	Inbound 1	KSURRATT		Tare	19020 lb
Out	06/19/2024 15:59:25	Outbound	cduneven		Net	13020 lb
					Tons	6000 lb
						3.00

Comments

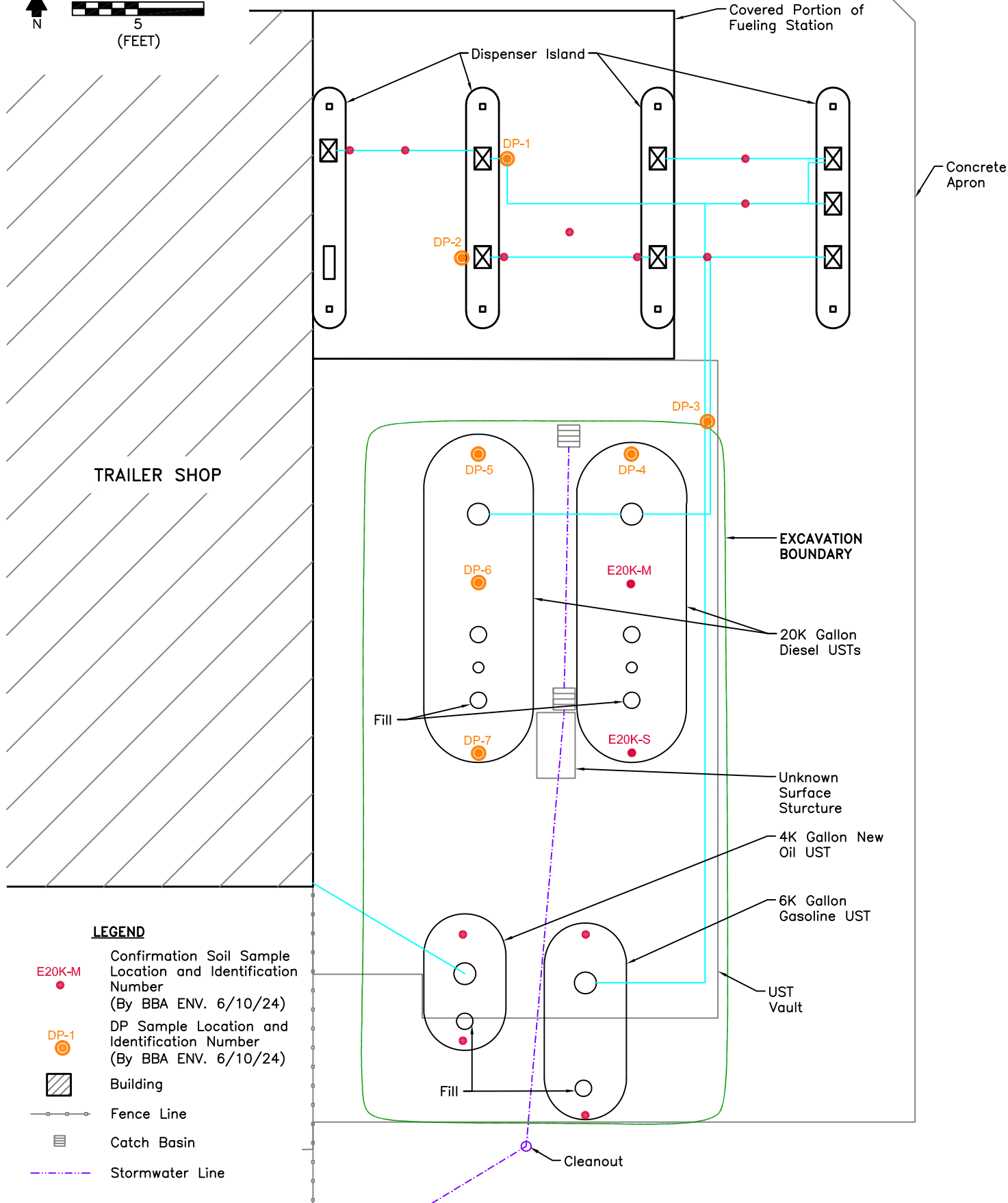
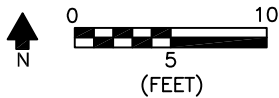
Consumer Comments? We want to know. Please call.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC- 100		3.00	Tons				CLACK-OUT
2 EVC-Energy/Adminis 100			%				CLACK-OUT

\$224.60

Total Tax  
Total Ticket

Driver's Signature



#### LEGEND

- E20K-M Confirmation Soil Sample Location and Identification Number (By BBA ENV. 6/10/24)
- DP-1 DP Sample Location and Identification Number (By BBA ENV. 6/10/24)
- Building
- Fence Line
- Catch Basin
- Stormwater Line



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www.BBAENV.COM

SITE PLAN SHOWING EXCAVATION & SOIL SAMPLES  
INTERSTATE DISTRIBUTOR COMPANY  
10110 SW RIDDER ROAD, WILSONVILLE, OREGON

PROJECT CODE:  
IDC01DEC.24UC

DATE:  
06/14/24

SCALE:  
1"=10'

DRAWN:  
K.D.DESIGNS

CHECKED:  
STEPHEN OMO

FIGURE #:

4

**From:** [smomo@bbaenv.com](mailto:smomo@bbaenv.com)  
**To:** [PARDUE Dave \\* DEQ](#)  
**Subject:** Update: 10110 SW Ridder Rd Wilsonville UST Decomm  
**Date:** Friday, June 14, 2024 11:14:06 AM  
**Attachments:** [image001.jpg](#)  
[IDC01- DEC-SP w SS \(1\).pdf](#)

---

You don't often get email from [smomo@bbaenv.com](mailto:smomo@bbaenv.com). [Learn why this is important](#)

Good morning, Dave,

Below is an update on the UST System decommissioning project at 10110 SW Ridder Road, in Wilsonville (see attached Figure).

- On Monday, June 3<sup>rd</sup>, the fuel dispensers were removed, and the product lines were pumped out and rinsed with water. The concrete above the product lines and USTs was removed. Soil samples were collected beneath each of the dispensers and product lines – except for the two (2) dispensers on Island #2, due to an extensive amount of pea gravel beneath this area (these dispensers were sampled later using a Geoprobe drill rig). No contamination was noted beneath any of the dispensers or product lines.
- The four (4) USTs were decommissioned by removal on Tuesday and Wednesday, June 4<sup>th</sup> and 5<sup>th</sup>. The USTs were crushed and removed from the excavation and placed in a roll-off dumpster for offsite disposal at the landfill as solid waste.
- During removal of the two (2) 20,000-gallon diesel USTs, and beneath the unknown metal structure between the fill ports, the pea gravel was noted to have a fuel odor and low-level PID measurements were recorded. This soil was segregated and placed on, and covered with plastic. According to a long-time employee familiar with the site, the metal structure was stormwater related. Two (2) composite soil samples were collected from the contaminated soil. The results are attached as COMP1 and COMP2, within which, oil-range Total Petroleum Hydrocarbons (TPH) was detected at 43.4 parts per million (ppm), gasoline-range TPH was detected at 35 ppm, ethylbenzene was detected at 52.2 ppm, and xylenes detected at 490 ppm; benzene and toluene were not detected. We have obtained a soil disposal permit from the Waste Management Hillsboro landfill, and will be taking the contaminated soil to the landfill on Wed. June 19<sup>th</sup>.
- Soil contamination was noted beneath south and middle of the east 20k diesel UST as a thin band of contamination.
- Soil samples were collected beneath the middle and south end of the east 20,000-gallon diesel using the excavator bucket; although this process was difficult, due to the extent of pea gravel in the UST cavity. Soil samples were also collected beneath each end of the 4,000-gallon motor oil UST, and 6,000-gallon gasoline UST using the excavator bucket without issue.
- On June 10<sup>th</sup>, a Geoprobe track rig was used to sample soil beneath the fuel dispensers on island #2. Pea gravel was noted to extend to 8.5 feet below land surface (BLS), at which depth, soil samples were collected from the native soil beneath.
- The Geoprobe track rig was also used to collect soil samples from beneath the west 20k UST, and north end of the east 20k UST. Within the soil core from these locations, a very thin band (1"-2") of low-level contamination was noted in the bottom pea gravel and top

of the native soil in the probe advanced at the southern end of the West 20k UST. Soil samples were collected from the uppermost native soil. Groundwater was not encountered in the borings, one of which was advanced to 20 feet below land surface (BLS).

- The UST cavity was backfilled with 3/4" gravel, compacted, and paved yesterday (June 13).

All laboratory results are Draft, and/or still pending analysis. We will send in our decommissioning forms, reports, documentation, and lab results within 30 days.

**Stephen Omo, R.G.**

Project Manager



503-570-9484 ext. 2 (office)

503-572-0082 (cell)

Email: [smomo@bbaenv.com](mailto:smomo@bbaenv.com)

**BB&A ENVIRONMENTAL**

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Coburg, OR 97408

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# Oregon

Tina Kotek, Governor

Department of Environmental Quality

Northwest Region

700 NE Multnomah Street, Suite 600

Portland, OR 97232

(503) 229-5263

FAX (503) 229-6945

TTY 711

August 8, 2024

Rodney Mclean  
Ridder Rd LLC  
54126 78<sup>th</sup> St Ct E  
Tacoma WA, 98443

RE: UST Decommissioning Status  
10110 SW Ridder Rd  
DEQ UST Facility ID No. 07506

Dear Rodney Mclean:

The Department of Environmental Quality (DEQ) has received and reviewed underground storage tank (UST) documents for closure of four decommissioned USTs at facility #07506, located at 10110 SW Ridder Rd., in Wilsonville. The purpose of this letter is to document UST closure as required by Oregon Administrative Rule (OAR) 340-150-0168(10).

Based on DEQ review of the documents received, the work appears to have met the requirements of OAR 340-150-0168 for decommissioning by permanent closure. DEQ has changed the status of the tanks from active to closed, with a decommissioning date of June 3, 2024. DEQ file and database records show tank permits EECA, EECB, EECC, and EECD as inactive and decommissioned. The documents received are on file at the DEQ Northwest Region Office in Portland.

**This letter is in no way related to any UST cleanup or other DEQ programs and is not intended to be a no further action letter for those purposes.** The DEQ's determination will not be applicable if new or undisclosed facts show that the UST closure does not comply with the referenced rules.

As the Permittee you are required to maintain records of permanent closure, including the site assessment report and associated documents for three years after the permanent closure checklist and report have been reviewed by the DEQ. If the UST facility is sold within this time period, you must provide these records to the new property owner.

We appreciate your efforts to comply with the prescribed decommissioning rules for underground storage tanks. Should you have any questions, please feel free to contact me at 503-360-4287.

Sincerely,

*Dave Pardue*

Dave Pardue  
UST Program Coordinator